

08/23/00

Jc912 U.S. PTO

08-24-00

A

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications
under 37 CFR 1.53(b))

Title of Invention

AUCTION MANAGEMENT SYSTEM

Named Inventor(s)

Gerald H. ABLAN

Attorney Docket

4A02.1-010

Express Mail Label No.

EL 467009890US

Jc858 U.S. PTO

09/644411

08/23/00

APPLICATION ELEMENTS

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

ACCOMPANYING APPLICATION PARTS

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification, Claims,
and Abstract Total Pages: 34
3. ☒ Drawings Total Sheets 17
4. Oath or Declaration Total Pages: 1
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17
completed)
[Note Box 5 Below]
 - (i) ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior
application, see 37 CFR 1.63(d)(2)
and 1.33(b).
5. ☐ Incorporation by Reference
(usable if Box 4b is checked)
The entire disclosure of the prior application, from which
a copy of the oath or declaration is supplied under Box
4b, is considered as being part of the disclosure of the
accompanying application and is hereby incorporated
by reference therein.
6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence
Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Copy
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 - c. ☐ Statement verifying identity of above
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8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement
(when there is an assignee)
 - ☐ Power of Attorney by assignee
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS) PTO-
1449
 - ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☒ Small Entity Statement(s)
 - ☐ Statement filed in prior application
Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
16. ☐ Other: _____

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____

18. CORRESPONDENCE ADDRESS:

Michael J. Mehrman, Esq.
GARDNER & GROFF, P.C.
Paper Mill Village, Building 23
600 Village Trace, Suite 300
Marietta, Georgia 30067

By: Michael J. Mehrman Reg. No. 40,086
Date: 8/23/00
Telephone: 770 984 2300
Facsimile: 770 984 0098

FEE TRANSMITTAL

Attorney Docket No. 4A02.1-010

This sheet accompanies a patent application transmittal for the following application:

Inventor(s): **Gerald H. ABLAN**

Filing Date:

Title: **AUCTION MANAGEMENT SYSTEM**

The filing fee is calculated as shown below:

1. FILING FEE:

SMALL ENTITY			LARGE ENTITY	
FOR:	FEE	FEE PAID	FEE	FEE PAID
<input checked="" type="checkbox"/> UTILITY FILING FEE	\$345	\$345	\$690	
<input type="checkbox"/> DESIGN FILING FEE	\$155		\$310	
<input type="checkbox"/> PLANT FILING FEE	\$240		\$480	
<input type="checkbox"/> REISSUE FILING FEE	\$345		\$690	
<input type="checkbox"/> PROVISIONAL FILING FEE	\$75		\$150	
SUBTOTAL (1)		\$345		\$xxx

2. CLAIMS:

SMALL ENTITY				LARGE ENTITY		
FOR:	NO. FILED	NO. EXTRA	RATE	FEE	RATE	FEE
TOTAL CLAIMS	26 - 20 =	6	x 9 =	54	x 18 =	
INDEP. CLAIMS	3 - 3 =	0	x 39 =	0	x 78 =	
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED			+130 =		+260 =	
SUBTOTAL (2)				\$54		\$xxx

3. ADDITIONAL FEES:

SMALL ENTITY			LARGE ENTITY	
FOR:	FEE	FEE PAID	FEE	FEE PAID
<input type="checkbox"/> LATE FILING, FEE OR OATH	\$65		\$130	
<input type="checkbox"/> NON-ENGLISH SPECIFICATION	\$130		\$130	
<input checked="" type="checkbox"/> OTHER (Fee For Recording Assignment)		40		
SUBTOTAL (3)		\$40		\$xxx

TOTAL FILING FEES: \$439A check is enclosed for the total amount: **\$439**☐ Charge any additional fees required under 37 C.F.R. 1.16 or 1.17 to Deposit Account 10-1215.

Gardner & Groff, P.C.
Paper Mill Village, Building 23
600 Village Trace, Suite 300
Marietta, Georgia 30067
Telephone: 770 984 2300
Facsimile: 770 984 0098

By: 

Michael J. Mehrman, Attorney for Applicant
Reg. No. 40,086

Date: 8/23/00JCS68 U.S. PTO
09/644411

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application or Patent of: **Gerald H. ABLAN**)
Application or Patent No.: **To Be Assigned**) Attorney Docket No. **4A02.1-010**
Filed or Issued: **Concurrently Herewith**)
For: **Auction Management System**)

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9 (f) AND 1.27 (c)) - SMALL BUSINESS CONCERN**

I hereby declare that I am:

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: **AUCTIONWORKS.COM, INC.**

ADDRESS OF CONCERN: **1776 PEACHTREE STREET,
SUITE 600 NORTH
Atlanta, Georgia 30309**

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41 (a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal years, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above, with regard to the invention titled "**AUCTION MANAGEMENT SYSTEM**" described in

- ☒ the specification filed herewith
☐ Application No. _____, filed _____
☐ patent No. _____, issued _____

The rights held by the above identified small business concern are exclusive.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: **Gerald H. ABLAN**

TITLE OF PERSON SIGNING: **Chief Technology Officer**

DATE 8/22, 00

SIGNATURE 

5

10

AUCTION MANAGEMENT SYSTEM

TECHNICAL FIELD

This invention relates generally to on-line auction systems and, more particularly, to an auction management system providing for consolidated auction posting and automatic monitoring of multiple auctions on multiple auction sites.

BACKGROUND OF THE INVENTION

On-line auctions have quickly become one of the most successful Internet applications. The ease of access, wide scope of notice, and low cost of on-line communications makes the Internet a tremendously successful auction platform. So successful, in fact, that the challenge for active auction users is not finding a place to participate in an auction, but effectively monitoring large numbers of auctions. For auction sellers, the process of creating dozens or hundreds of auction submissions and posting them to various auction sites can consume hours. The process can also be tedious to the point of mind numbing.

Periodically logging into the various auction sites to monitor the status of the auctions can be equally time consuming and tedious. And when the auctions close, the process of completing the transactions and providing feedback to the

5 auction host requires more time and effort. A large-scale auction seller can easily get bogged down just trying to keep track of which auctions have closed, which buyers have paid, which packages have been shipped, and so forth. For this reason, the time and effort required to post, monitor, and complete auction transactions represents an important transaction cost that limits the cost effectiveness of the on-line auction vehicle in certain situations, such as the sale of very inexpensive items in a large number of separate transactions.

10 Similar drawbacks beset auction buyers, and especially those who would like to bid in a large number of auctions. Unless the buyer has sufficient time and motivation to monitor each auction on an on-going basis, it is difficult if not impossible to optimize the bidding strategy. A large scale auction buyer also faces the challenge of tracking which bids have won, which purchases have been paid for, which items have been received, and so forth.

15 The drawbacks described above tend to inhibit new auction users and limit the usefulness of the on-line auction process for experienced auction users in some situations. For auction users all levels of skill and market activity, there is a need in the art for a more effective auction management tools. In particular, there is a need for an auction management tool that allows easy buyer and seller control over multiple auctions on multiple auction sites. Additional
20 improvements in the on-line auction management process are also needed.

SUMMARY OF THE INVENTION

25 The present invention meets the needs described above in an auction management system that provides a consolidated platform for managing multiple auctions posted on multiple auction sites. The auction management system saves auction users time and offers convenience by providing a single site where users can create an auction inventory, store images of the items offered for sale, create auction submissions, and queue them for posting to a variety of auction sites. The auction management system also creates a unified auction monitoring report

that keeps track of activity on the user's auctions on multiple auction sites. To do so, the auction management system automatically links to the various auction sites, identifies the user's auctions, and extracts the pertinent data for consolidated display on the auction monitoring report.

5 The auction management system also provides the added convenience of automatic closed auction processing. For this feature, the auction management system automatically identifies closed auctions, links to the appropriate auction sites, and extracts the pertinent closed auction data. The system then identifies auctions that ended in sales, notifies the buyers and sellers, and creates billing
10 and sales records. The auction monitoring reports also includes tracking fields for entering post-auction data indicating whether the successful bidder has been notified, whether payment has been received, whether the auction item has been shipped, and whether feedback has been sent to the auction host. The system also offers payment handling, a retail electronic store front, automatic feedback
15 handling, one-click incremental bidding, and other time saving features and options.

 The consolidation of all of these auction management tools on a single platform greatly facilitates auction processing and monitoring for multiple auctions posted on multiple auction sites. The automatic auction monitoring and
20 consolidated reporting features typically save the auction posting party five to ten minutes for every auction posted, a minute or two for each monitoring update, and five to ten minutes for each completed sale. For a large auction user posting hundreds or thousands of auction per month, the time savings add up to hundreds or even thousands of man hours over the course of a year. The system also
25 makes the auction process easier to use and understand for novice users. Moreover, the advantage of automatic real-time auction updates facilitates more effective bidding and listing practices. The system therefore provides advantages for auction users at all levels of skill and market activity.

Generally described, the auction management system creates an auction consolidation account and receives a number of auction requests in association with the account. Then system then visits each auction site and posts the corresponding auction request. To allow consolidated auction monitoring, the system compiles a consolidated auction monitoring report containing information pertaining to each auction request. Typically upon receiving a user request for an auction monitoring report, the system revisits each auction site to extract updated auction information pertaining to the corresponding auction request. The system then updates the auction monitoring report with the updated auction information extracted from the auction monitoring sites.

To facilitate the creation of auction submissions, the auction management receives auction advertisement text, an auction advertisement image, and a selection of one of a number of predefined auction templates. The system then creates an auction submission by combining the advertisement text and the advertisement images in a format defined by the selected auction template. The system later transmits the auction submission to the auction site in accordance with a posting time instruction received from the posting user.

The auction monitoring feature automatically visits the auction host site for a monitored auction, identifies the page containing the corresponding auction posting; downloads the page, and then parses the page to extract the updated auction information. To facilitate the processing of closed auctions, the system periodically identifies posted auctions that have closed. For each closed auction, the system visits the host auction site, identifies the page containing the closed auction, downloads the page, parses the page to extract the closed auction data, and then processing the closed auction data.

To process the closed auction data, the system typically determines whether the auction resulted in a sale. If so, the system notifies the seller and buyer, and creates sales and billing records documenting the closed auction closing. The system may also obtain an automatic feedback instruction from

settings data associated with the corresponding account, and transmit auction feedback data to the corresponding site in accordance with the automatic feedback instruction.

To facilitate auction tracking, the auction monitoring report includes auction tracking fields. The auction user may click on these fields to indicate the completion of a tracked event. For example, the tracked events typically include buyer notification, payment received, auction item shipped, and payment received. To partially automate the tracking process, the system obtains an auction processing instruction from settings data associated with the corresponding account, performs an operation in accordance with the auction processing instruction, and set one of the tracking field to indicate completion of the operation. For instance, the system may automatically notify the buyer upon the closing of an auction ending in a sale, and indicate in the appropriate tracking field that the winning bidder has been notified.

In view of the foregoing, it will be appreciated that the present invention greatly facilitates auction processing and monitoring for multiple auctions posted on multiple auction sites. The specific techniques and structures employed by the invention to improve over the drawbacks of prior on-line auction systems and accomplish the advantages described above will become apparent from the following detailed description of the embodiments of the invention and the appended drawings and claims.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a functional block diagram of an auction management system.

FIG. 2 is a functional block diagram of an auction consolidator.

FIG. 3 is a functional block diagram illustrating the components used to monitor auctions and finalize sales in an auction management system.

FIG. 4 is a functional block diagram illustrating the components used to post auction submissions in an auction management system.

FIG. 5 is a logic flow diagram illustrating an auction consolidation routine.

FIG. 6 is a logic flow diagram illustrating a routine in which sellers list items for auction.

FIG. 7 is a logic flow diagram illustrating a routine for creating an auction
5 consolidation account.

FIG. 8 is a logic flow diagram illustrating a routine for creating auction inventory.

FIG. 9 is a logic flow diagram illustrating a routine for launching an auction.

FIG. 10 is a logic flow diagram illustrating a routine for posting auction
10 submissions to auction sites.

FIG. 11 is a logic flow diagram illustrating a routine for monitoring auction sites.

FIG. 12 is a logic flow diagram illustrating a routine for finalizing auction
15 sales.

FIG. 13 is a logic flow diagram illustrating a routine for processing closed auctions.

FIG. 14 is a logic flow diagram illustrating a routine for providing auction feedback.

FIG. 15 is a logic flow diagram illustrating a routine for updating a parser
20 for use in an auction monitoring system.

FIG. 16 is an illustration of a user interface containing a seller's auction monitoring report.

FIG. 17 is an illustration of a user interface containing a buyer's auction
25 monitoring report.

DETAILED DESCRIPTION OF THE EMBODIMENTS

The present invention may be embodied in an auction management system that consolidates auction posting, monitoring, and closing for multiple auction

users on multiple auction sites. The system employs an auction consolidator to provide an Internet interface between auction sellers, auction buyers, and auction sites. The auction consolidator provides a unified platform where sellers post auction submissions, enter auction tracking data, and enter auction feedback for multiple auctions on multiple auction sites. Similarly, auction buyers monitor auction status, receive winner notification, enter auction tracking data, and enter auction feedback for multiple auctions on multiple auction sites. To support these functions, the auction management system compiles and posts auction submissions, automatically accesses the auction sites to extract auction status and closed auction data, and provides auction feedback to multiple auction sites on behalf of multiple auction users. The auction consolidator also provides links to one or more payment systems, which offer electronic transaction settlement services to facilitate credit card and debit card payments for completing on-line auction transactions.

15 An embodiment of the auction management system includes several Internet web servers that function as user interface platforms. An application server and a relational database support the integrated operations of the system. The application server includes a "finalizer" module that identifies and processes closed auctions; a "parser" module that extracts auction status and closed auction data from the auction sites; a "flashpost" module that creates auction submissions and posts them to the auction sites; a "store front" module that allows retail sale access to users' inventories; and an "auction monitor" module that maintains a consolidated auction monitoring report for each account maintained on the system. The auction monitor module typically provides a consolidated auction monitoring for each account. This auction monitoring report includes tracking entries that allows auction buyers and sellers to keep track of the status of their closed auctions. The auction monitor module also automates certain post-closing tacking functions, such as notifying the winning bidder, and supports automatic auction feedback to the host auction site.

The relational database includes a user table containing identification and account information for buyers and sellers that are registered to use the system, an auction table containing status data for all active auctions under management by the system, an inventory table containing specifications for items that registered sellers have inventory, an image inventory containing images for items that registered sellers have inventory; a compilation of auction submission templates, a table of sales records, a table of billing records, and other tables to facilitate the operation of the auction management system.

Those skilled in the art will appreciate that the specific configuration described above could be organized into other equivalent sets of modules and tables that perform the described functions. It should also be understood that, while the system is configured to operate using the Internet as the global communication media, the system could be deployed in other types of networks, such as local or wide area networks, intranets, private dial-up networks, etc. Likewise, the system may be constructed on any of a variety of hardware platforms using any appropriate operating system, database program, and programmer's tool kit. The appropriate size, speed, and capacity of the various components depends on the number of simultaneous users that the system will be designed to support, and such design choices are within the grasp of those of ordinary skill in the programming and networking arts.

Turning not to the drawings, in which like numerals refer to like elements throughout the several figures, FIG. 1 is a functional block diagram of an on-line auction environment including an auction management system **10**. The auction management system **10** includes a consolidated platform, the auction consolidator **20**, for accessing and managing auctions conducted on multiple auction sites **12a-12n**. The at present, one of the auction sites **12a** may be located by eBay.com., another auction site **12b** may be located by Amazon.com., another auction site **12n** may be located by FairMarket.com., and so forth. The Internet **14** interconnects the auction management system **10** with the auction

sites **12a-12n**, and with auction sellers **16a-16n** and auction buyers **18a-18n**. The auction management system **10** also includes one or more payment systems, which is represented by the payment system **22**. For example, PayPal.com and several other commercial sites offer electronic transaction settlement services to facilitate credit card and debit card payments for completing on-line auction transactions.

The auction consolidator **20** operates as an Internet interface between the auction sellers **16a-16n**, auction buyers **18a-18n** and the auction sites **12a-12n**. The auction consolidator **20** provides a unified platform where the sellers **16a-16n** post auction submissions, enter auction tracking data, and enter auction feedback for multiple auctions the multiple auction sites **12a-12n**. Similarly, the auction buyers **18a-18n** monitor auction status, receive winner notification, enter auction tracking data, and enter auction feedback for multiple auctions on the multiple auction sites **12a-12n**. To support these functions, the auction management system compiles and posts auction submissions, automatically accesses the multiple auction sites **12a-12n** to extract auction status and closed auction data, and provides auction feedback to auction sites on behalf of the buyers and sellers. The auction consolidator **20** provides a link to payment system **22**, which handles the financial aspects of closing the auction sales,

FIG. 2 is a functional block diagram of the auction consolidator **20**, which includes several Internet web servers **24a-24n** that function as user interface platforms. An application server **26** and a relational database **40** support the integrated operations of the system **10**. The application server **26** includes a “finalizer” module **28** that identifies and processes closed auctions; a “parser” module **32** that extracts auction status and closed auction data from the auction sites **12a-12n**; a “flashpost” module **30** that creates auction submissions and posts them to the auction sites; a “store front” module **34** that allows retail sale access to users’ inventories; and an “auction monitor” module **36** that maintains a consolidated auction monitoring report for each account maintained on the

system. The auction monitor module **36** typically provides a consolidated auction monitoring for each account. This auction monitoring report includes tracking entries that allows the auction sellers **16a-16n** and the auction buyers **18a-18n** to keep track of the status of their closed auctions. The auction monitor module **36** also automates certain post-closing tacking functions, such as notifying the winning bidder, and supports automatic auction feedback to the host auction site.

The relational database **40** includes a user table **42** containing identification and account information for buyers and sellers that are registered to use the auction consolidator **20**, an auction table **44** containing status data for active auctions under management by the system **10**, an inventory table **46** containing specifications for items that registered sellers have inventory, an image inventory **48** containing images for items that registered sellers have inventory; a compilation of auction submission templates **50**, a table of sales records **52**, a table of billing records **54**, and other tables to facilitate the operation of the auction management system.

FIG. 3 is a functional block diagram illustrating the components used to monitor auctions in the auction management system **10**. Referring first to the process for monitoring active auctions, the auction monitor module **36** automatically obtains updated auction status information for a particular account whenever the auction buyer or seller associated with that account links to the auction monitor module **36** or selects an "update auction monitor" command from within the auction monitor module. To obtain the updated auction status information for a particular active auction, the auction monitor **36** links to the host auction for that auction. The parser module **32** then navigates to the page that contains the desired auction status data, and downloads that page. The parser module **32** then parses the downloaded page to extract the desired auction status data. The auction monitor **36** uses the extracted auction status data to update the auction monitoring report for the corresponding account. The auction

monitor **36** repeats this process for each active auction record in the user's auction monitoring report, and displays the updated auction monitoring report as an HTML web page.

Referring now to the process for finalizing sales, the finalizer module **28** periodically searches the auction table **44** to identify closed auctions. For each closed auction, the finalizer module **28** links to the host auction site **12** and logs in as the seller of the item that had been offered for sale in the closed auction. The finalizer module **28** then navigates to the page that contains the desired closed auction data, and calls the parser module **32** to download that page. The parser module **32** then parses the downloaded page to extract the desired auction closing data. The finalizer module **28** then notifies the seller of the auction closing, typically by e-mail. If the auction closed in a sale, the finalizer module **28** also notifies the winning bidder and creates a sales record and a billing record for the transaction. The sales record keeps track of the closed auction data for post-closing tracking, and the billing record initiates the invoicing process for charging the commission earned by the auction management system **10** for the closed auction. The finalizer module **28** repeats this process for each closed auction record in the auction table **44**, rests for a minute, and then begins the process again.

FIG. 4 is a functional block diagram illustrating the components used to post auction submissions in the auction management system **10**. A seller in a forward auction, or a buyer in a reverse auction, accesses the system **10** through the web server **24**, where a menu-driven user interface system takes the user through the registration and account set-up procedure. The interface system also prompts the user to identify the desired host auction site and the auction parameters. These parameters typically include the date and time to post the item to the auction, the days in the auction or the auction end data and time, the listing category on the host auction site, the payment method, the shipping method, a minimum bid, the reserve price, and a private auction indicator.

Either before or during this session, the user may upload one or more images corresponding to inventory items that the user may want to buy or sell. These images are stored in the image inventory **48**. To create an auction submission, also called an "ad," the user selects a predefined ad template for the ad and fills in the ad text entries on a corresponding HTML page **62** provided by the web server **24**. The ad template defines a particular layout for the ad. The user also links the ad to one or more images in the image inventory **48**. Upon receipt of a "create ad" command, the flashpost module **30** combines the selected images with the received text to create an HTML page containing the complete auction ad **60**. This ad is then stored on the ad templates library **50** in the database **40**, and the ad is registered in an ad queue **64** for posting to the specified auction at the specified time. The flashpost module **30** periodically checks the ad queue and posts the auction ad to the designated auction site **12** at the specified time.

FIG. 5 is a logic flow diagram illustrating an auction consolidation routine for the auction consolidator **20**. In routine **502**, sellers list items for auction. It will be appreciated that buyers may also list items for a reverse auction. Routine **502** is described in greater detail with reference to FIGS. 6-9. Routine **502** is followed by routine **504**, in which the auction consolidator **20** posts auction ads to the auction sites. Routine **504** is described in greater detail with reference to FIG. 10. Routine **504** is followed by routine **506**, in which the auction consolidator **20** monitors active auctions. Routine **506** is described in greater detail with reference to FIG. 11. Routine **506** is followed by routine **508**, in which the auction consolidator **20** finalizes sales. Routine **508** is described in greater detail with reference to FIGS. 12-13. Routine **508** is followed by routine **510**, in which the auction consolidator **20** receives auction tracking data and provides feedback to the host auction sites. Routine **510** is described in greater detail with reference to FIG. 14.

Routine **510** is followed by decision step **512**, in which the auction consolidator **20** decides whether to update the parser module **32**. This module may need updating whenever the host auction site alters the structure of the HTML pages on the auction site that the parser extracts auction status monitoring or closed auction data. For example, an auction data download error may indicate the need to update the parser. If the parser module **32** needs to be updated, the "YES" branch is followed to routine **514**, in which a technician updates the parser module **32**. Routine **514** is described in greater detail with reference to FIG. 15. If the parser module **32** does not need to be updated, the "NO" branch is followed to the "CONTINUE" step, which returns to step **502**. That is, routine **500** may repeat as needed during the operation of the auction consolidator **20**.

Although routine **500** is illustrated as a linear progression, it should be appreciated that each of the constituent routines **502-514** may operate independently and simultaneously. That is, routine **500** shows the usual progression for a particular auction, but as multiple auctions are processed by multiple users, any or all of the constituent routines **502-514** may be operating at any particular time. In particular, routines **504** and **508** typically operate in a continuous loop, whereas routine **502** operates whenever a seller lists an item. Routine **506** operates on an account-by-account whenever a user links to the auction monitor **36** for a particular account. In other words, routine **506** operates for a particular account whenever a user links to the auction monitor **36** for that particular account. Routine **510**, on the other hand, typically operates in part automatically whenever an auction closes, and in part manually as buyers and sellers enter tracking data. And routine **514** operates from time to time whenever the parser **32** needs updating in response to changes that occurred to one or more of the auction sites.

FIG. 6 is a logic flow diagram illustrating routine **502** in which sellers list items for auction. It should be understood that routine **502** operates in an

equivalent matter for buyers in reverse auctions. Routine **502** follows the “BEGIN” step shown on FIG. 5. In step **602**, a seller registers at the auction consolidator site **20**. The registration information typically includes user information and seller information. The user information typically includes
 5 desired user name, desired password, e-mail address, and a “where did you hear about us” selection menu. The seller information typically includes a billing address and information authorizing a payment method, such as a credit or debit card account. Upon receiving the requested information, the auction consolidator site **20** typically displays the received user profile and offers the
 10 user an opportunity to review and edit the information as desired.

Step **602** is followed by routine **604**, in which the seller creates one or more auction accounts. Routine **604** is described in greater detail with reference to FIG. 7. Routine **604** is followed by routine **606**, in which the seller creates auction inventory. Routine **606** is described in greater detail with reference to
 15 FIG. 8. Routine **606** is followed by routine **608**, in which the seller launches an auction. Routine **608** is described in greater detail with reference to FIG. 9. Routine **608** is followed by step **610**, in which the seller previews the auction template and may make changes if desired. Step **610** is followed by the “CONTINUE” step, which returns to step **504** shown on FIG. 5.

FIG. 7 is a logic flow diagram illustrating routine **604** for creating an auction consolidation account. Routine **604** follows step **602** shown on FIG. 6. In step **702**, the seller selects a “set-up account” option. Step **702** is followed by step **704**, in which the seller enters default shipping terms for the account. In this step, the auction consolidator site **20** displays a semi-structured user interface
 25 that prompts the seller to enter certain default shipping terms. These terms typically include whether the buyer or seller will pay for shipping, what the shipping cost will be, and the payment terms (e.g., by credit card, personal checks accepted within ten days, and so forth). The auction consolidator site **20** then creates a text paragraph containing the default shipping terms as they would

be published on the ad template, and allows the seller to preview and edit the paragraph.

Step **704** is followed by step **706**, in which the seller creates an ad template for the account. In this step, the auction consolidator site **20** displays a semi-structured user interface that prompts the seller to enter selection items that define an ad template. These terms typically include a template style selection, a title for the item, a description of the item, a specification of shipping terms (e.g., use the default shipping terms), and one or more optional image legends for each image in the selected template style. The auction consolidator site **20** then creates the HTML code for the ad template, and allows the seller to preview and edit the HTML code.

Step **706** is followed by step **708**, in which the seller previews the ad template. In this step, the auction consolidator site **20** displays the ad template as it will appear on the auction site. The seller may then save the ad template or repeat one or more of the previous steps edit the ad template. Once the seller is satisfied with the ad template for the current account, the user may decide in step **708** whether to create another auction account. If the seller wants to create another account, the "YES" branch loops back to step **702**, in which the seller selects the "set-up account" option. If the seller does not want to create another account, the "NO" branch is followed to the "CONTINUE" step, which returns to step **606** shown on FIG. 6.

FIG. 8 is a logic flow diagram illustrating a routine **606** for creating auction inventory. Routine **606** follows routine **604** shown on FIG. 6. In step **802**, the seller selects a "set-up inventory" option. Step **802** is followed by step **804**, in which the seller creates a new inventory item. Alternatively, the seller may edit or delete an inventory item at this point. In this step, the auction consolidator site **20** displays a semi-structured user interface that prompts the seller to enter certain inventory detail items. Step **804** is followed by step **806**, in which the seller fills in the inventory detail items. These items typically include

the item inventory number, the item's title, the quantity on hand, the quantity on hold, shipping terms for single and multiple item deliveries, a directory location or folder for storing the inventory detail, the auction categories at the various auction sites for listing the item, the acquisition cost of the item, the retail price of the item, an indication whether the item is offered for sale on the seller's store front, a minimum opening bid, a reserve price, and a description of the item. Additional data items may include keywords for search use on the auction sites, storage locations for optional images of the item, and other optional data, such as an ISBN number, UPC code, SKU number, color, item release or manufacture date, style or model, size, dimensions, weight, and so forth. Step 806 is followed by step 808, in which the seller enters a free-text description of the item.

Either previously or at this point the seller may take digital pictures of the item in step 812 and upload them to the image inventory 48 in step 814. Steps 808 and 814 are followed by step 810, in which the seller selects one or more images from the image inventory 48 to be displayed along with the text in the ad template. The auction consolidator site 20 then creates an inventory detail page containing the received data, and allows the seller to preview and edit the inventory detail page. The seller may then save the inventory detail or repeat one or more of the previous steps edit the inventory detail. Once the seller is satisfied with the inventory detail, step 810 is followed by step 816, in which the seller saves the inventory detail. The user may then decide in step 818 whether to create another inventory item. If the seller wants to create another inventory item, the "YES" branch loops back to step 804, in which the seller selects the "create new inventory item" option. If the seller does not want to create another inventory item, the "NO" branch is followed to the "CONTINUE" step, which returns to routine 608 shown on FIG. 6.

FIG. 9 is a logic flow diagram illustrating routine 608 for launching an auction. Routine 608 follows routine 606 shown on FIG. 6. In step 902, the seller selects an item from the auction inventory and enters a "launch" command.

This brings up a semi-structured user interface that prompts the seller to enter or select certain auction launch items. Step **902** is followed by step **904**, in which the seller selects an auction site for posting the auction. Step **904** is followed by step **906**, in which the seller selects an ad template for the auction ad. In this
 5 step, the seller may typically select among a number of predefined ad template styles, including those template styles previously created and saved by the seller in routine **604**. Step **906** is followed by step **908**, in which the seller enters auction settings, such as the launch date and time, the auction category, and so forth. The fields for these items may already be populated with the data entered
 10 by the seller in routine **606**. Step **908** is followed by step **910**, in which the seller selects an auction ad appearance, which typically sets a color scheme for the ad template.

Step **910** is followed by step **912**, in which the seller has an opportunity to review and change the auction settings as desired. Step **912** is followed by step
 15 **914**, in which the seller may preview the ad template as it will be posted on the auction site. Step **914** is followed by step **916**, in which the seller may elect to edit the ad template. If the seller wants to edit the ad template, the "YES" branch loops back to step **912**, in which the seller edits the ad template as desired. If the seller does not want to create another inventory item, the "NO" branch is
 20 followed to step **918**, in which the seller accepts the auction submission. This registers the auction submission in the ad queue **62** (see FIG. 4) for subsequent posting to the auction site in accordance with the posting instructions entered into the as settings. Step **918** is followed by the "CONTINUE" step, which returns to routine **610** shown on FIG. 6.

25 FIG. 10 is a logic flow diagram illustrating routine **504** for posting auction submissions to auction sites. Routine **504** follows routine **502** shown on FIG. 5. In step **1002**, the flashpost module **30** gets the next auction submission registered in the ad queue **62**. That is, the auction submissions are queued in order according to the posting time specified in the auction settings, and when the time

comes to post a particular auction, the flashpost module **30** gets that auction submission from the ad queue **62**. Step **1002** is followed by step **1004**, in which the flashpost module **30** determines whether the auction submission is a single item listing or a bulk listing. A single item listings are accompanied by a completed ad template, whereas the flashpost module **30** creates the template for a bulk listing item at this point. Thus, if the auction submission is a bulk listing, the “YES” branch is followed to step **1006**, in which the flashpost module **30** creates the template in the manner described previously with reference to FIG. 4. To accommodate this, the bulk listing should contain the ad template style, text description, image selections, shipping terms, and other items, either explicitly or through default settings, required for the flashpost module **30** to create the specific ad template for the particular auction item.

Step **1006** and the “NO” branch from step **104** are followed by step **1008**, in which the flashpost module **30** posts the auction submission to the auction site designated in the auction settings. This typically involves automatically logging into the auction site as the seller and properly navigating through HTML pages of the auction site to enter the auction submission. Note here that the execution code for the flashpost module **30** may have to be updated from time to time in response to changes that occur in the auction site logic. Step **1008** is followed by step **1010**, in which the flashpost module **30** deletes the just-processed record from the ad queue **62**. Step **1010** is followed by step **1012**, in which the flashpost module **30** determines whether the auction submission was accepted by the auction site. This is typically determined through a message received from the auction site after the auction site processes the auction submission. If the auction submission was not accepted by the auction site, the “NO” branch is followed to step **1014**, in which the flashpost module **30** sends the seller an error message, and may also create a maintenance record to trigger a troubleshooting analysis of the code for the flashpost module **30**.

Step **1014** and the "YES" branch from step **1012** are followed to step **1016**, in which the flashpost module **30** determines whether the ad queue includes another auction submission that is ready for posting. If the ad queue does include another auction submission to be posted, the "YES" branch loops
 5 back to step **1002**, in which the flashpost module **30** gets the next ad in the queue. If the ad queue does not include another auction submission to be posted, the "YES" branch is followed to step **1018**, in which the flashpost module **30** rests for a minute or some other predetermined or dynamically determined interval. Step **1018** is followed by the "CONTINUE" step, which
 10 returns to step **506** shown on FIG. 5. In addition, routine **504** loops back to step **1002** after the rest interval to check for additional auction submissions to post.

FIG. 11 is a logic flow diagram illustrating routine **506** for monitoring auction sites. Routine **506** follows routine **504** shown on FIG. 5. In step **1002**, a registered buyer or seller (i.e. user) links to the auction monitor module **36** or
 15 selects and "update auction" command from within the auction monitor module **36**. Note that the user typically links to the auction monitor module **36** after selecting a particular account, or may be prompted to select an account to monitor at this point. That is, the auction monitor module **36** typically operates on an account-by-account basis, and therefore seeks a specific account. The
 20 auction monitor module **36** then obtains or assembles the auction monitor report for that account. The auction monitor includes a record for each active auction associated with the account. These records are then updated for presentation to the user.

Step **1102** is followed by step **1104**, in which the auction monitor module
 25 **36** gets the next active auction record from the auction monitor report for the current account. Step **1104** is followed by step **1106**, in which the auction monitor module **36** links to the host auction site for the current record. That is, the auction monitor module **36** links to the auction site where the item for the current record is on auction. Step **1106** is followed by step **1108**, in which the

auction monitor module **36** logs in as the seller of the item (or the buyer in a reverse auction). Step **1108** is followed by step **1110**, in which the auction monitor module **36** navigates to the page containing the auction status data for the current record. Note here that the execution code for the auction monitor module **36** may have to be updated from time to time in response to changes that occur in the auction site logic. Step **1110** is followed by step **1112**, in which the auction monitor module **36** calls the parser module **32** to download that page. Step **1112** is followed by step **1114**, in which the parser module **32** parses the downloaded page to extract the auction status data. Step **1114** is followed by step **1116**, in which the auction monitor module **36** enters the auction status data as needed to update the auction monitoring report for the current record.

Step **1116** is followed by step **1118**, in which the auction monitor module **36** checks the current auction monitoring report and determines whether there is another active auction record to update. If there is another active auction record to update, the "YES" branch loops back to step **1104**, in which the auction monitor module **36** gets the next active auction record for the current auction monitoring report. If the current auction monitoring report does not include another active auction record to update, the "NO" branch is followed to the "CONTINUE" step, which returns to routine **508** shown on FIG. 5.

FIG. 12 is a logic flow diagram illustrating a routine **508** for finalizing auction sales. Routine **508** follows routine **504** shown on FIG. 5. In step **1202**, the finalizer module **28** gets the next closed auction record from the auction table **44**. That is, the finalizer module **28** sorts the auction records in the auction table **44** according to the auction closing time, identifies auctions that have closed, and selects the next closed auction for processing. Step **1202** is followed by step **1204**, in which the finalizer module **28** links to the host auction site for the current closed auction record. That is, the finalizer module **28** links to the auction site where the item for the closed auction identified in the current closed auction record was on auction. Step **1204** is followed by step **1206**, in which the

finalizer module **28** logs in as the seller of the item (or the buyer in a reverse auction). Step **1206** is followed by step **1208**, in which the finalizer module **28** navigates to the page containing the auction status data for the current record. Note here that the execution code for the finalizer module **28** may have to be updated from time to time in response to changes that occur in the auction site logic.

Step **1208** is followed by step **1210**, in which the auction monitor module **36** calls the parser module **32** to download that page. Step **12** is followed by routine **1212**, in which the parser module **32** parses the downloaded page to extract the auction status data. Routine **1212** is described in greater detail with reference to FIG. 13. Routine **1212** is followed by step **1214**, in which the finalizer module **28** determines whether there is another closed auction at the same auction site. Note that the finalizer module **28** may sort the closed auction records by auction site to facilitate this aspect of routine **508**. If there is another closed auction at the same auction site, the "YES" branch loops back to step **1208** in which the finalizer module **28** links to the corresponding page in the auction site.

If there is not another closed auction at the same auction site, the "NO" branch is followed to step **1216**, in which the finalizer module **28** determines whether there are additional closed auction records to process at a different auction site. If there is another closed auction at a different auction site, the "YES" branch loops back to step **1202**, in which the finalizer module **28** links to the corresponding auction site. If there is not another closed auction record to process, the "NO" branch is followed to step **1218** in which the finalizer module **28** rests for a minute. Step **1218** is followed by the "CONTINUE" step, which returns to routine **510** shown on FIG. 5.

FIG. 13 is a logic flow diagram illustrating routine **1212** for processing closed auctions. Routine **1212** follows step **1210** shown on FIG. 12. In step **1302**, the finalizer module **28** determines whether the closed auction resulted in a

sale. If the closed auction did not result in a sale, the "NO" branch loops down to step **1312**, in which the finalizer module **28** notifies the seller (or the buyer in a reverse auction) of the auction result. If the closed auction resulted in a sale, the "YES" branch list followed to step **1304**, in which the finalizer module **28** creates a customer record for the seller (or the buyer in a reverse auction). The customer record serves as a aggregation item or folder for billing records for that particular customer in the sales billing records table **54**.

Step **1304** is followed by step **1306**, in which the finalizer module **28** creates a sales record documenting the sale and stores the sales record in the sales record table **52**. Step **1306** is followed by step **1308**, in which the finalizer module **28** creates a billing record for charging the seller (or buyer, or both, as appropriate) for the auction management system's commission the sale, and stores the billing record in the billing record table **54**. Step **1308** is followed by step **1308**, in which the finalizer module **28** notifies the wining bidder (i.e., the buyer in a forward auction, and the seller in a reverse auction) of the auction result. Step **1310** is followed by step **1312**, in which the finalizer module **28** notifies the seller (or the buyer in a reverse auction) of the auction result. Step **1312** is followed by the "CONTINUE" step, which returns to step **1214** shown on FIG. 12.

FIG. 14 is a logic flow diagram illustrating routine **510** for providing auction feedback. Routine **510** follows routine **508** shown on FIG. 5. In step **1402**, the finalizer module **28** gets the next closed auction record from the auction table **44**. Step **1402** is followed by step **1404**, in which the finalizer module **28** checks the auction settings in the record to determine whether an automatic feedback option is activated. If an automatic feedback option is not activated, routine **510** typically loops to step **1410**, where manual feedback may be received. If an automatic feedback option is activated, step **1404** is followed by step **1406**, in which the finalizer module **28** enters an indication in the corresponding auction monitoring report indicating that the automatic feedback

option is active. Step **1406** is followed by step **1408**, in which the finalizer module **28** automatically sends the indicated feedback to the host auction site.

Step **1408** is followed by step **1410**, in which the auction monitor **36** may receive manual auction feedback from a user. If the auction monitor **36** receives manual auction feedback, the "YES" branch is followed to step **1412**, in which the auction monitor **36** sends the indicated feedback to the host auction site. The "NO" branch from step **1410** and step **1412** are followed by the "CONTINUE" step, which returns to step **512** shown on FIG. 5.

FIG. 15 is a logic flow diagram illustrating routine **514** for updating the parser module **32**. Routine **514** follows the "YES" branch from step **512** shown on FIG. 5. In step **1502**, a technician troubleshooting the parser module **32** links to the auction site where the parser error occurred. Step **1502** is followed by step **1504**, in which the technician identifies a desired data item to extract on the auction site. Step **1504** is followed by step **1506**, in which the technician identifies the syntax within the HTML for automatically locating the desired data item. Step **1506** is followed by step **1508**, in which the technician programs the parser module **32** to use the identified syntax to identify and extract the desired data item, if needed. Step **1508** is followed by step **1510**, in which the technician determines whether there is another data item to extract. If there is another data item to extract, the "YES" branch loops back to step **1504**, in which the technician identifies the desired data item. If there is not another data item to extract, the "NO" branch is followed by the "CONTINUE" step, which returns to the "CONTINUE" step shown on FIG. 5.

It should be understood that a process similar to that described above may be used to trouble the parser **32** for extracting auction status data, and for extracting closed auction data. In addition, a similar process may be used to troubleshoot the finalizer module **28**, the flashpost module **30**, and the auction monitor module **36** for any navigation errors that may occur from time to time.

FIG. 16 is an illustration of a user interface containing a seller's auction monitoring report **1600**. The report includes a consolidated set of records **1602** for each of the auctions associated with a particular account. Each record shows the item's title **1603**, the item number **1604**, the quantity offered for sale **1606**,
 5 the high bidder **1608**, the current price **1610** (i.e., highest bid if a bid has been received, or the minimum bid price if no bids have been received), the number of hits that the item's auction page has received **1612**, and the auction end date and time **1614**. Under the auction end date and time **1614** are tracking icons **1620**.

These tracking icons include a first tracking icon (telephone) indicating
 10 whether the successful bidder has been notified, a second tracking icon (\$) indicating whether payment has been received, a third tracking icon (plane) indicating whether the auction item has been shipped, and a fourth tracking icon (star) indicating whether feedback has been sent to the auction host. A user may select a particular auction record and then click on one or more of the tracking
 15 icons to enter indicators in tracking fields associated with that record. Each indicator typically appears as a bullet or check mark in that record row aligned in a column under the corresponding icon.

The auction monitoring report **1600** also includes a commands selection box **1622** that includes a selectable list of commands that may be activated for
 20 the report. The particular commands available within the commands selection box **1622** changes in response to the item selected in the display filter selection box **1624**. The display filters selection box includes three choices: open auctions, pending auctions, and closed auctions. The open auctions are auctions that have been posted to an auction site and are currently active for receiving
 25 bids. The pending auctions are auctions that are queued for posting but have not yet been posted to an auction site. Closed auctions are auctions that have already closed. Selecting one of these filters causes only those auctions that fit the corresponding definition to be displayed within the auction monitoring report **1600**.

The commands available for “open auctions” are: add counters, end auction early, import auction, invert selection, refresh page, select all, unselect all, and update auctions. The commands available for “pending auctions” are: invert selection, refresh page, select all, unselect all, cancel launch, and launch now. The commands available for “closed auctions” are: import auction, invert selection, refresh page, select all, unselect all, update auctions, archive item, save changes, delete auction, and resend notification to winning bidder.

The auction monitoring report **1600** also includes an auction sites selection item **1626**, an archived auctions selection item **1628**, and an auctions per page selection item **1630**. The auction sites selection item **1626** allows the user to select one auction or all auction sites for display on the auction monitoring report **1600**. The archived auctions selection item **1628** allows the user to select whether archived auctions are included on the auction monitoring report **1600**. The auctions per page selection item **1630** allows the user to select the number of auction records displayed on each page of the auction monitoring report **1600**.

FIG. 17 is an illustration of a user interface containing a buyer’s auction monitoring report **1700**. The buyer’s report is similar to the seller’s monitoring report except that the available commands are somewhat different. The buyer’s auction monitoring report **1700** also shows a feedback selection icon **1702** that appears next to the auction number in a closed auction record. Clicking on this icon launches an feedback window with some or all of the feedback items filled in with default settings. This allows the user to review and edit the feedback as desired. The buyer’s auction monitoring report **1700** also shows a tracking field entry **1704** indicating that seller has already been notified of the closed auction.

The display filters selection box includes four choices: current bids, auctions won, auctions lost, and all auctions. The commands available for “current bids” are: invert selection, refresh page, and update auctions. The commands available for “auctions won” are: invert selection, refresh page, update auctions, archive auction, delete auction, select all, unselect all, and save

changes. The same commands available for when the "lost auctions" and "all auctions" display filters are selected.

5 In view of the foregoing, it will be appreciated that present invention provides an auction management system that greatly facilitates auction processing and monitoring for multiple auctions posted on multiple auction sites. It should be understood that the foregoing relates only to the exemplary embodiments of the present invention, and that numerous changes may be made therein without departing from the spirit and scope of the invention as defined by the following claims.

10

CLAIMS

The invention claimed is:

1. A method for managing on-lines auctions:

5 creating an auction consolidation account;

receiving a plurality of auction requests in association with the account,
each to be posted on a respective auction site;

visiting each auction site and, during the visit, posting the corresponding
auction request;

10 compiling a consolidated auction monitoring report containing information
pertaining to each auction request;

revisiting each auction site to extract updated auction information
pertaining to the corresponding auction request; and

15 updating the auction monitoring report with the updated auction
information extracted from the auction monitoring sites.

2. The method of claim 1, wherein the step of posting an auction
request to an auction site comprise the steps of:

receiving auction advertisement text;

20 receiving an auction advertisement image;

receiving a selection of one of a plurality of predefined auction templates;

creating an auction submission by combining the advertisement text and
the advertisement images in a format defined by the selected auction template;
and

25 transmitting the auction submission to the auction site.

3. The method of claim 1, wherein the step of extracting updated
information from an auction site comprises the steps of:

identifying a page containing the updated information; and

parsing the page to extract the updated auction information.

4. The method of claim 3, further comprising the steps of downloading the page before parsing the page to extract the updated auction information.

5

5. The method of claim 1, wherein the step of revisiting the auction sites occurs upon receiving a user request for the auction monitoring report.

6. The method of claim 1, further comprising the step of repeating the steps of claim 1 to create a plurality of auction monitoring reports in association with a plurality of accounts.

10

7. The method of claim 5, further comprising the steps of:
periodically identifying posted auctions that have closed; and
for each closed auction:

15

visiting the corresponding auction site,
extracting closed auction data from the auction site, and
processing the closed auction data.

20

8. The method of claim 6, wherein the step of extracting the closed auction data comprises the steps of:

identifying a page containing the closed auction data; and
parsing the page to extract the auction closing data information.

25

9. The method of claim 6, wherein the step of processing the closed auction data comprises the step of sending a notice of the auction closing in a manner specified in a record associated with the corresponding account.

10. The method of claim 6, wherein the step of processing the closed auction data comprises the steps of:

determining whether the auction resulted in a sale, and if the auction resulted in a sale;

5 notifying a selling party of the sale;
notifying the buying party of the sale; and
creating a sales record documenting the closed auction closing.

11. The method of claim 6, wherein the step of processing the closed auction comprises the steps of:

obtaining an automatic feedback instruction from settings data associated with the corresponding account; and

transmitting auction feedback data to the corresponding site in accordance with the automatic feedback instruction.

12. The method of claim 6, wherein the step of processing the closed auction comprises the steps of:

displaying auction tracking fields in a corresponding auction monitoring report;

20 receiving user input to one or more of the tracking fields; and
recording the user input to the auction monitoring report.

13. The method of claim 12, wherein the tracking fields include buyer notification, payment received, auction item shipped, and payment received.

25

14. The method of claim 12, further comprising the steps of:
obtaining an auction processing instruction from settings data associated
with the corresponding account;
performing an operation in accordance with the auction processing
5 instruction; and
setting one of the tracking field to indicate completion of the operation.

15. A computer-readable medium storing computer-executable
instructions for performing the steps of claim 1.

16. A computer-controlled apparatus configured to perform the method
of claim 1.

17. An auction management system configured to:
15 receive and store an inventory of text descriptions of auction items;
receive and store an inventory of images of the auction items;
receive and store an inventory of advertisement templates;
for each of a plurality of auction requests, combine a selected text
description and a selected image to create an auction submission in a format
20 defined by a selected auction template;
visit each auction site to post a corresponding auction submission;
compile a consolidated auction monitoring report containing information
pertaining to each auction submission;
revisit each auction site to extract updated auction information pertaining
25 to the corresponding auction request; and
updating the auction monitoring report with the updated auction
information extracted from the auction monitoring sites.

18. The auction management system of claim 17, further configured to:
periodically identify posted auctions that have closed; and
for each closed auction:

5 visit the corresponding auction site,
extract auction closing data from the auction site, and
process the closed auction.

19. The auction management system of claim 17, further configured to:
determine whether the auction resulted in a sale, and if the auction resulted
10 in a sale:

notify a selling party of the sale;
notify the buying party of the sale; and
create a sales record documenting the auction closing data.

15 20. The auction management system of claim 17, further configured to:
obtain an automatic feedback instruction from settings data associated with
the corresponding account; and
transmit auction feedback data to the corresponding site in accordance
with the automatic feedback instruction.

20 21. The auction management system of claim 17, further configured to:
display auction tracking fields in a corresponding auction monitoring
report;
receive user input to one or more of the tracking fields; and
25 record the user input to the auction monitoring report.

22. A computer-readable medium storing computer-executable instructions for performing the steps of:

creating an auction consolidation account;

receiving a plurality of auction requests in association with the account,

5 each to be posted on a respective auction site;

visiting each auction site and, during the visit, posting the corresponding auction request by:

receiving auction advertisement text,

receiving auction advertisement images,

10 receiving a selection of one of a plurality of predefined auction templates,

creating an auction submission by combining the advertisement text and the advertisement images in a format defined by the selected auction template, and

15 transmitting the auction submission to the auction site;

compiling a consolidated auction monitoring report containing information pertaining to each auction request;

revisiting each auction site and, during the subsequent visit, extracting updated auction information pertaining to the corresponding auction request by:

20 identifying a page containing the updated information, and

parsing the page to extract the updated auction information;

updating the auction monitoring report with the updated auction information extracted from the auction monitoring sites;

25 upon identification of the account, providing access to the monitoring report;

periodically identifying posted auctions that have closed; and

for each closed auction:

visiting the corresponding auction site,

extracting auction closing data from the auction site, and

processing the closed auction by determining whether the auction resulted in a sale, and if the auction resulted in a sale, notifying a selling party of the sale, notifying the buying party of the sale, and creating a sales record documenting the auction closing data.

5

23. The computer-readable medium of claim 22, wherein the instructions further comprise the steps of repeating the steps of claim 1 to create a plurality of auction monitoring reports in association with a plurality of accounts.

10

24. The method of claim 23, wherein the instructions further comprise the step of processing the closed auction comprises the steps of:

obtaining an automatic feedback instruction from settings data associated with the corresponding account; and

15

transmitting auction feedback data to the corresponding site in accordance with the automatic feedback instruction.

25. The method of claim 24, wherein the instructions further comprise the step of processing the closed auction comprises the steps of:

20

displaying auction tracking fields in a corresponding auction monitoring report;

receiving user input to one or more of the tracking fields;

recording the user input to the auction monitoring report.

25

26. The method of claim 25, wherein the instructions further comprise the steps of:

obtaining an auction processing instruction from settings data associated with the corresponding account;

performing an operation in accordance with the auction processing

30

instruction; and

setting one of the tracking field to indicate completion of the operation.

AUCTION MANAGEMENT SYSTEM

ABSTRACT OF THE DISCLOSURE

5

An auction management system that consolidates auction posting, monitoring, and closing for multiple auction users on multiple auction sites. An auction consolidator provides an Internet interface between auction sellers, auction buyers, and auction sites. The auction management system provides a unified platform where sellers post auction submissions, enter auction tracking data, and enter auction feedback for multiple auctions on multiple auction sites. Similarly, auction buyers monitor auction status, receive winner notification, enter auction tracking data, and enter auction feedback for multiple auctions on multiple auction sites. To support these functions, the auction management system compiles and posts auction submissions, automatically accesses the auction sites to extract auction status and closed auction data, and provides auction feedback to multiple auction sites on behalf of multiple auction users. The auction management system includes several Internet web servers that function as user interface platforms. An application server and a relational database support the integrated operations of the system. The Application server includes an "auction monitor" module that maintains a consolidated auction monitoring report for each account maintained on the system. The auction monitor module includes tracking entries that allows auction buyers and sellers to keep track of the status of their closed auctions. The auction monitor module also automates certain post-closing tacking functions, such as notifying the winning bidder, and supports automatic auction feedback to the host auction site.

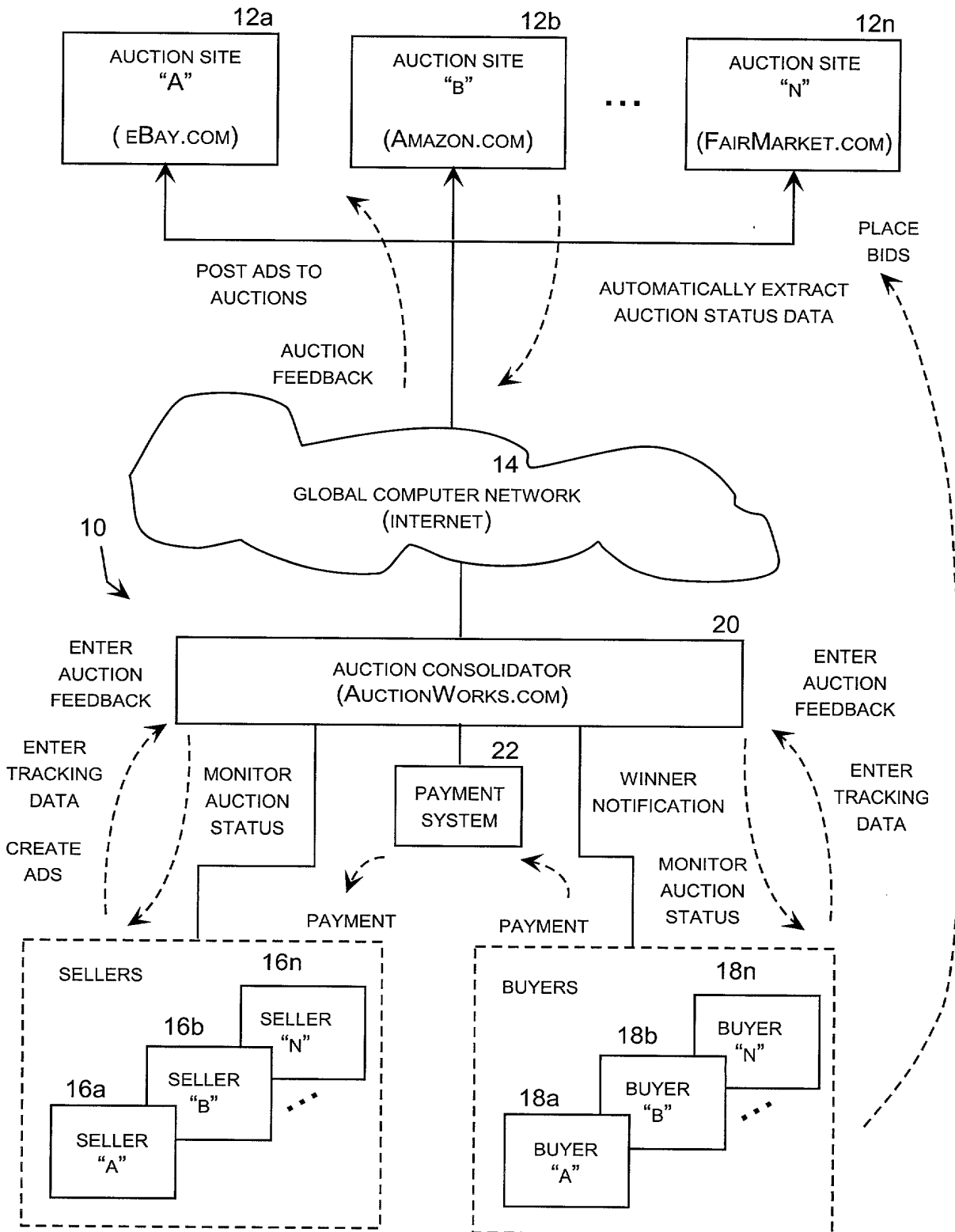
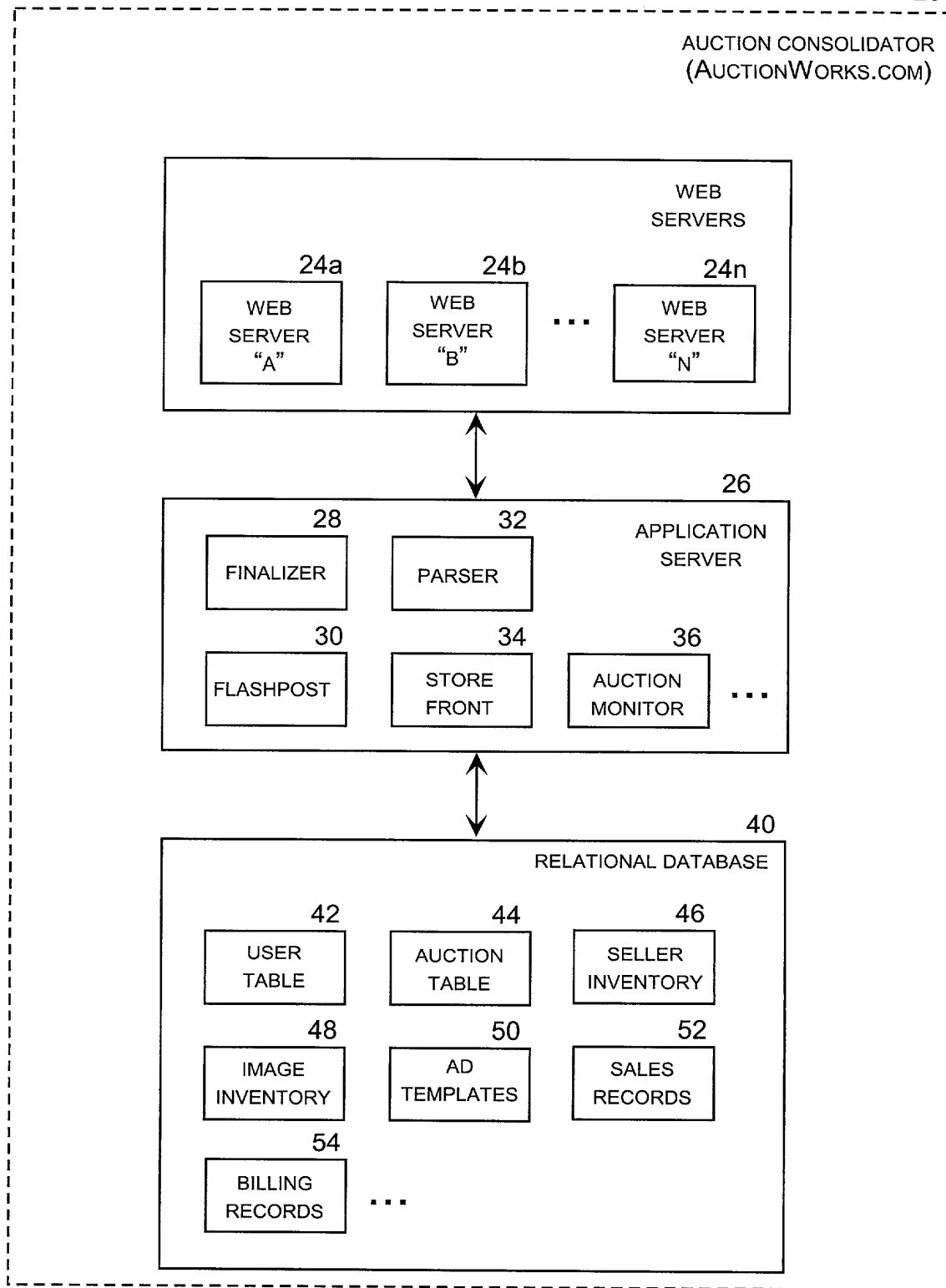


FIG.1

**FIG.2**

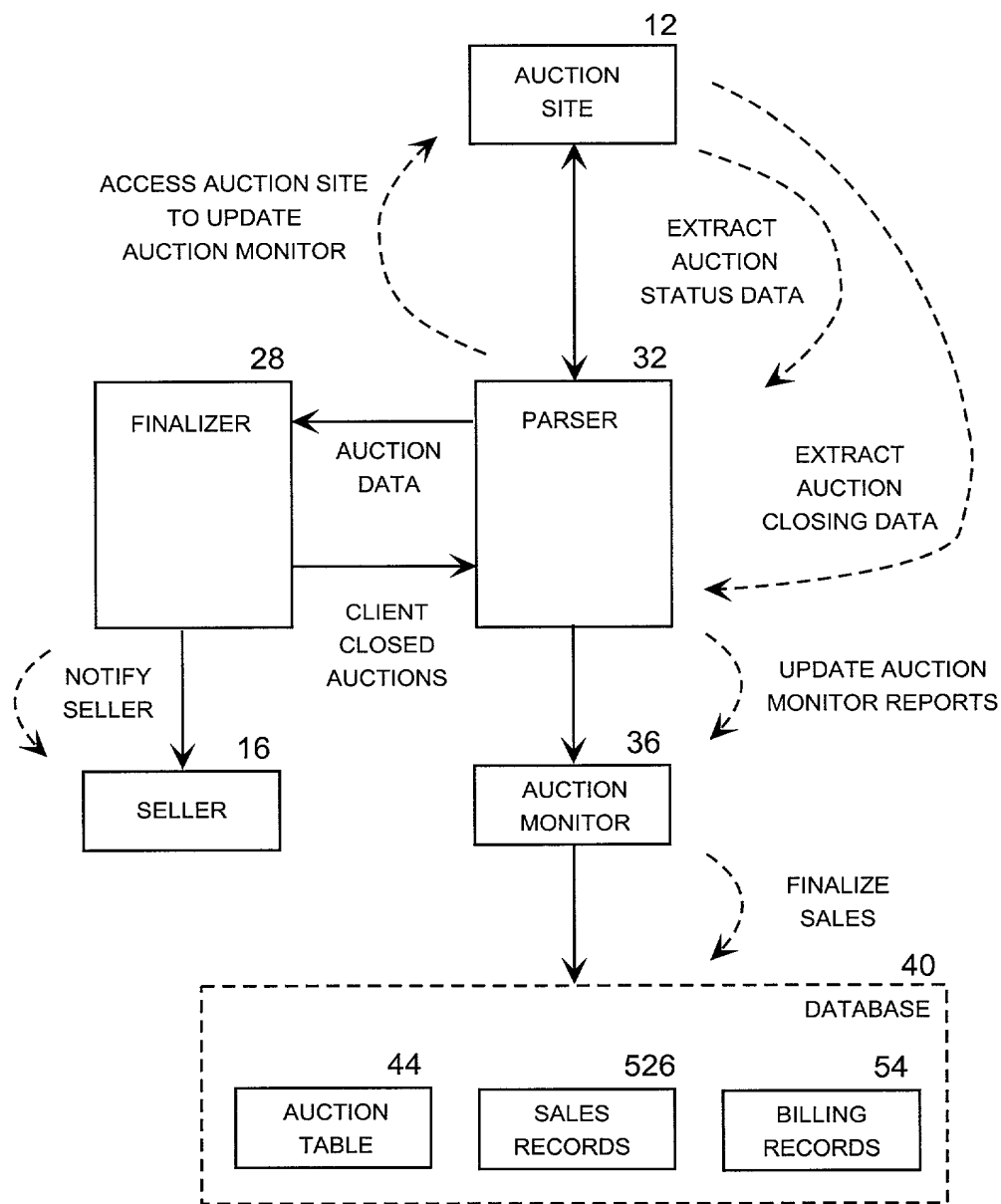


FIG.3

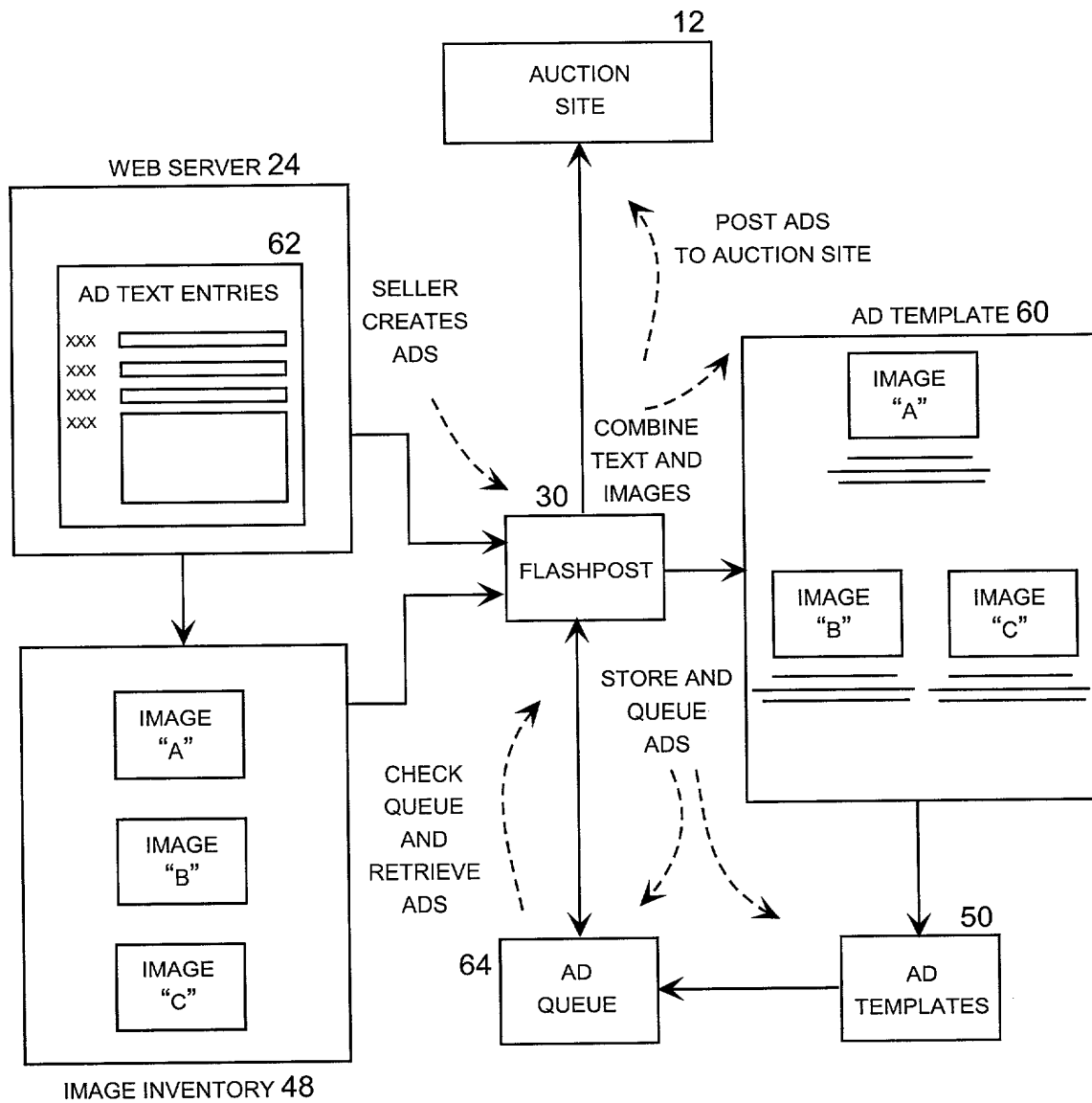


FIG.4

AUCTION
CONSOLIDATION
ROUTINE
500

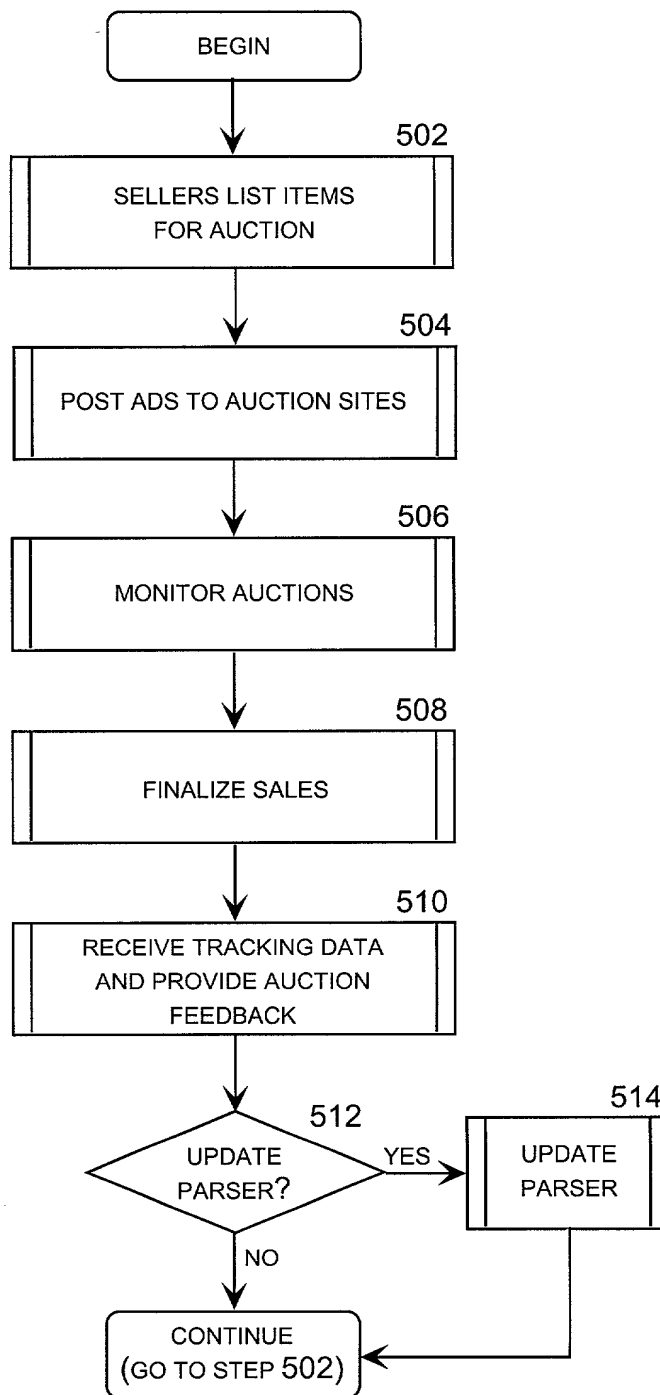


FIG.5

SELLERS LIST ITEMS
FOR AUCTION
502

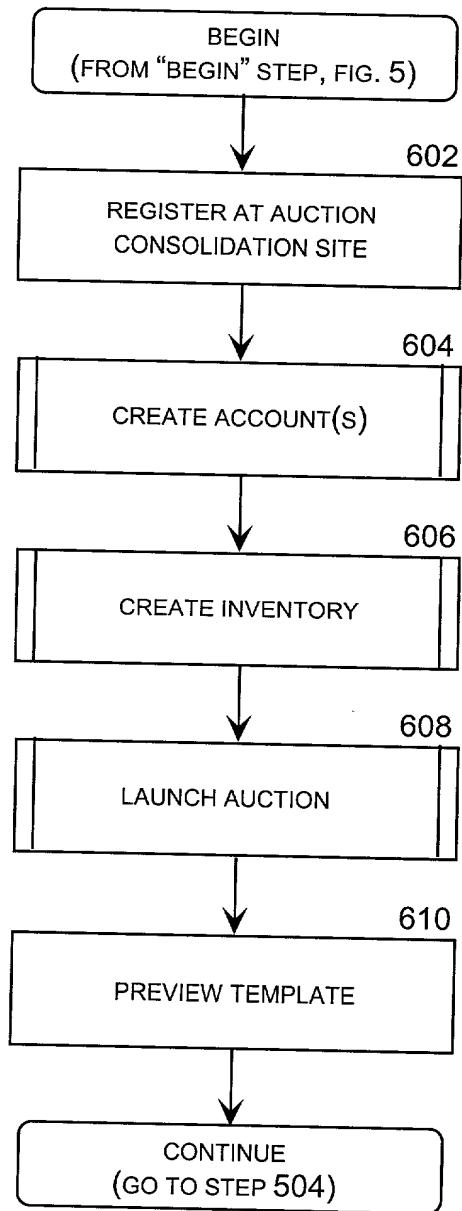
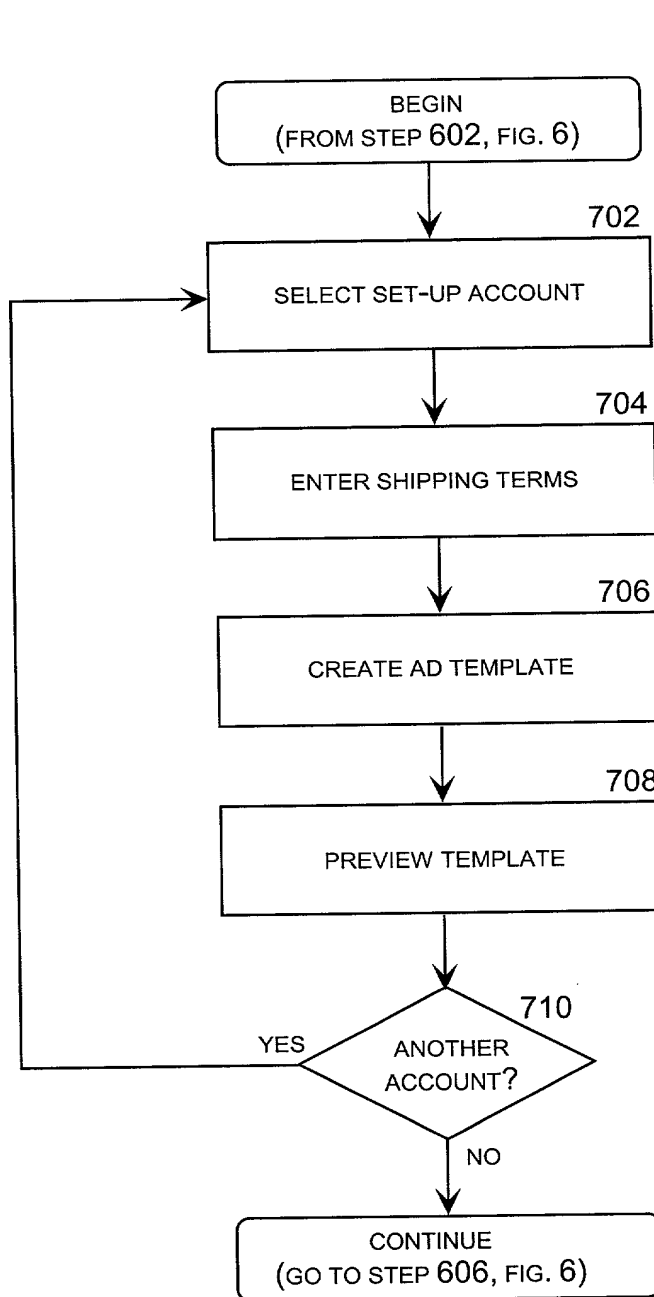


FIG. 6



CREATE ACCOUNT(S)
604

FIG.7

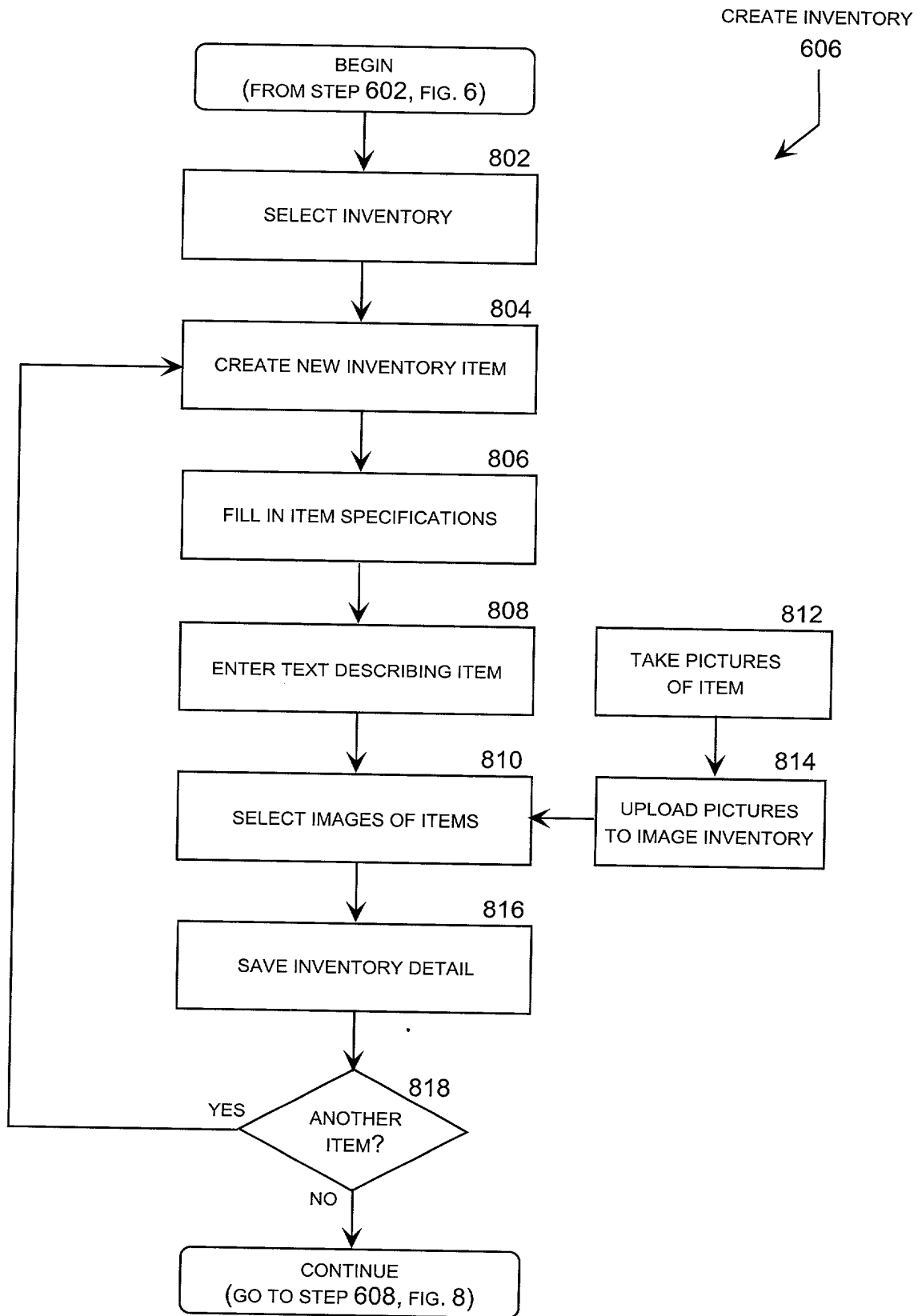


FIG. 8

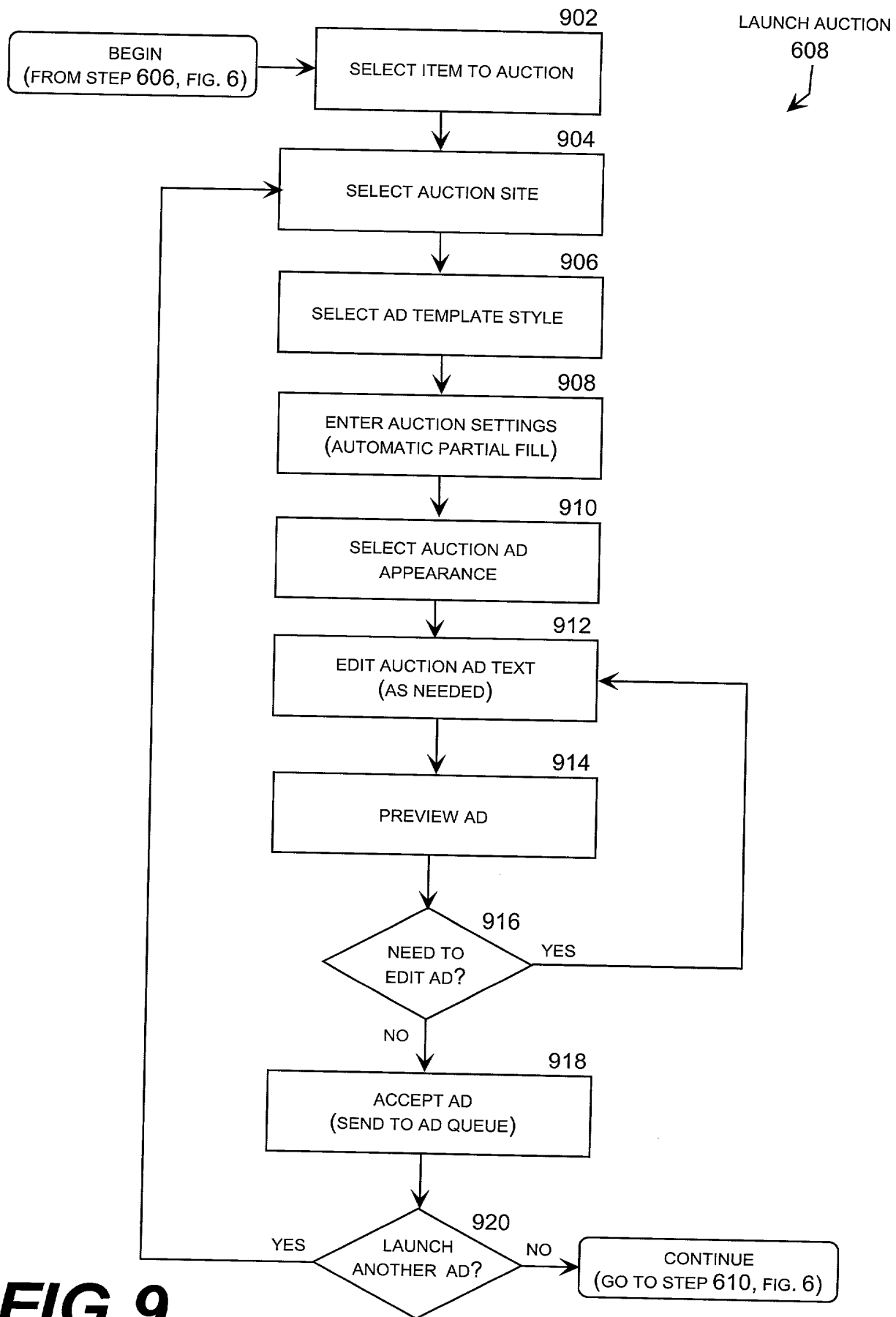


FIG.9

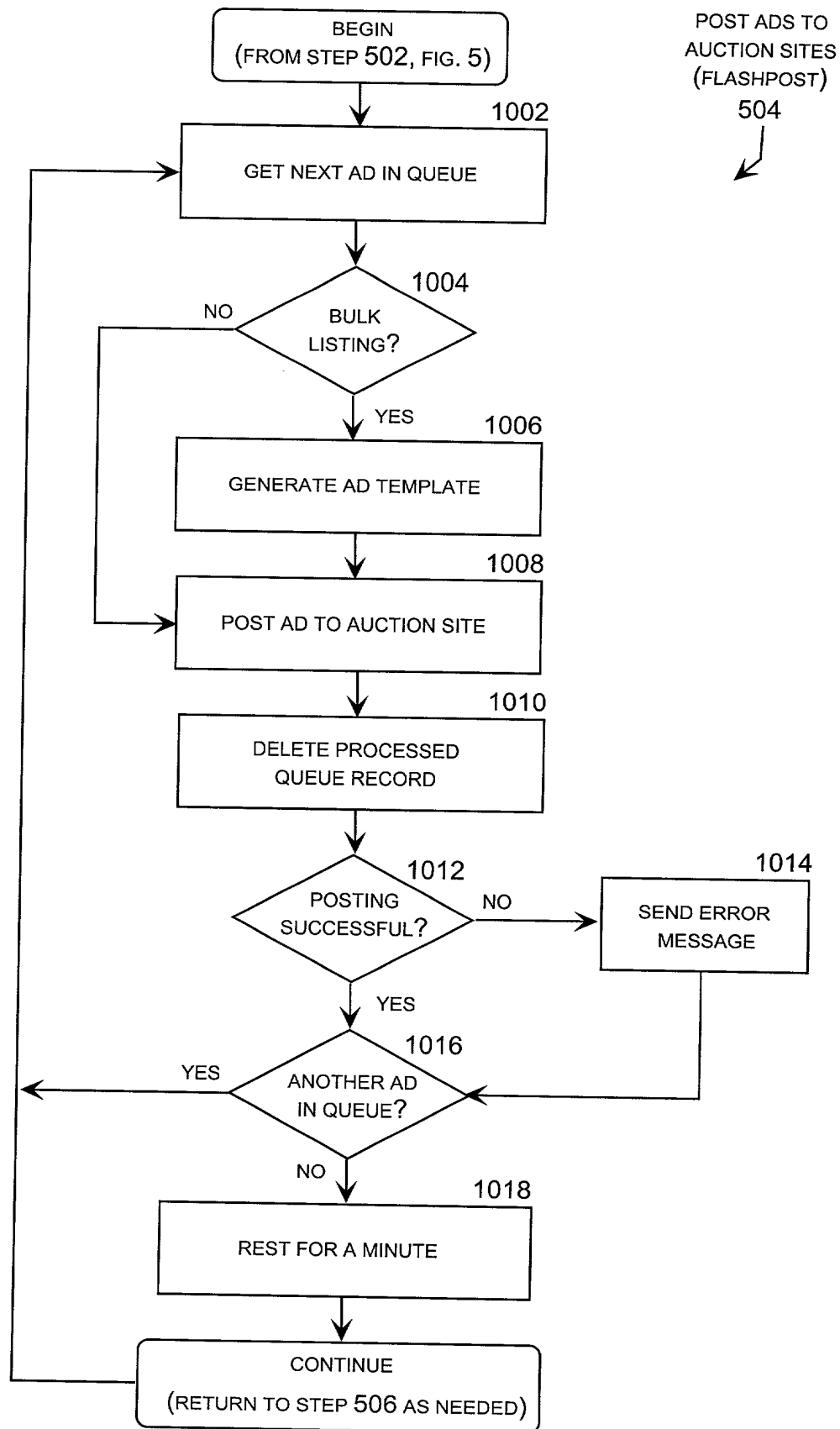
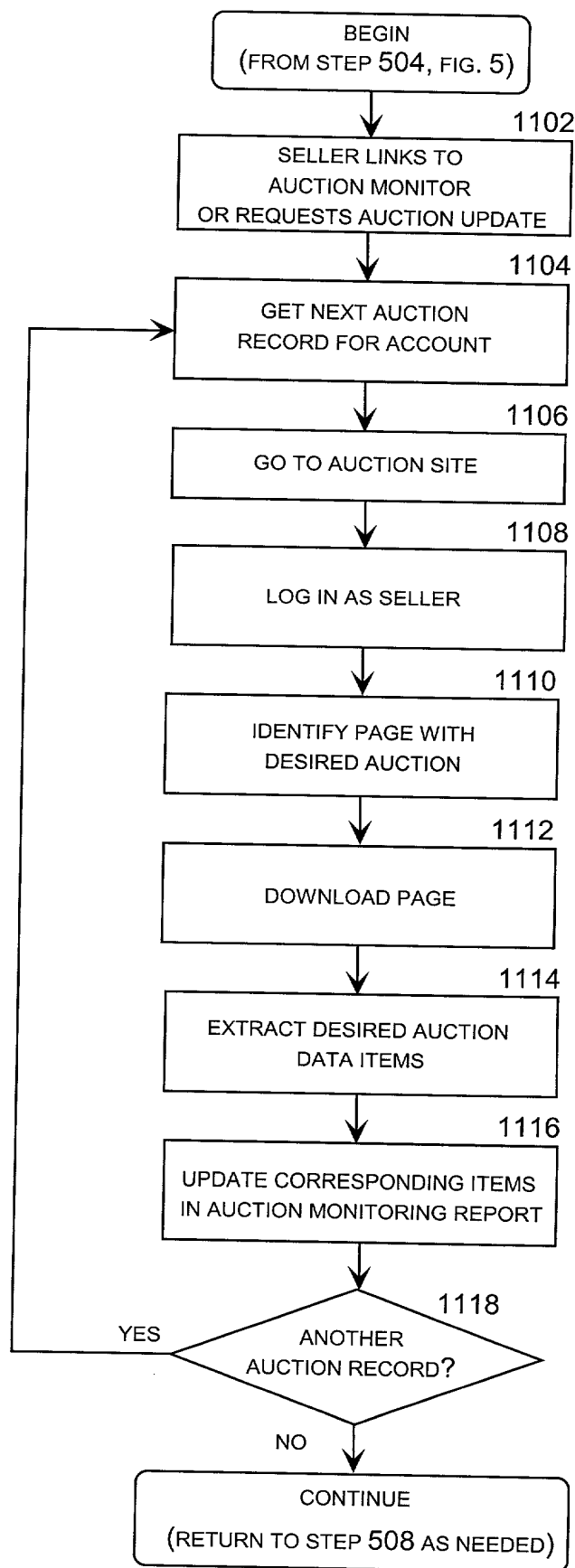


FIG. 10

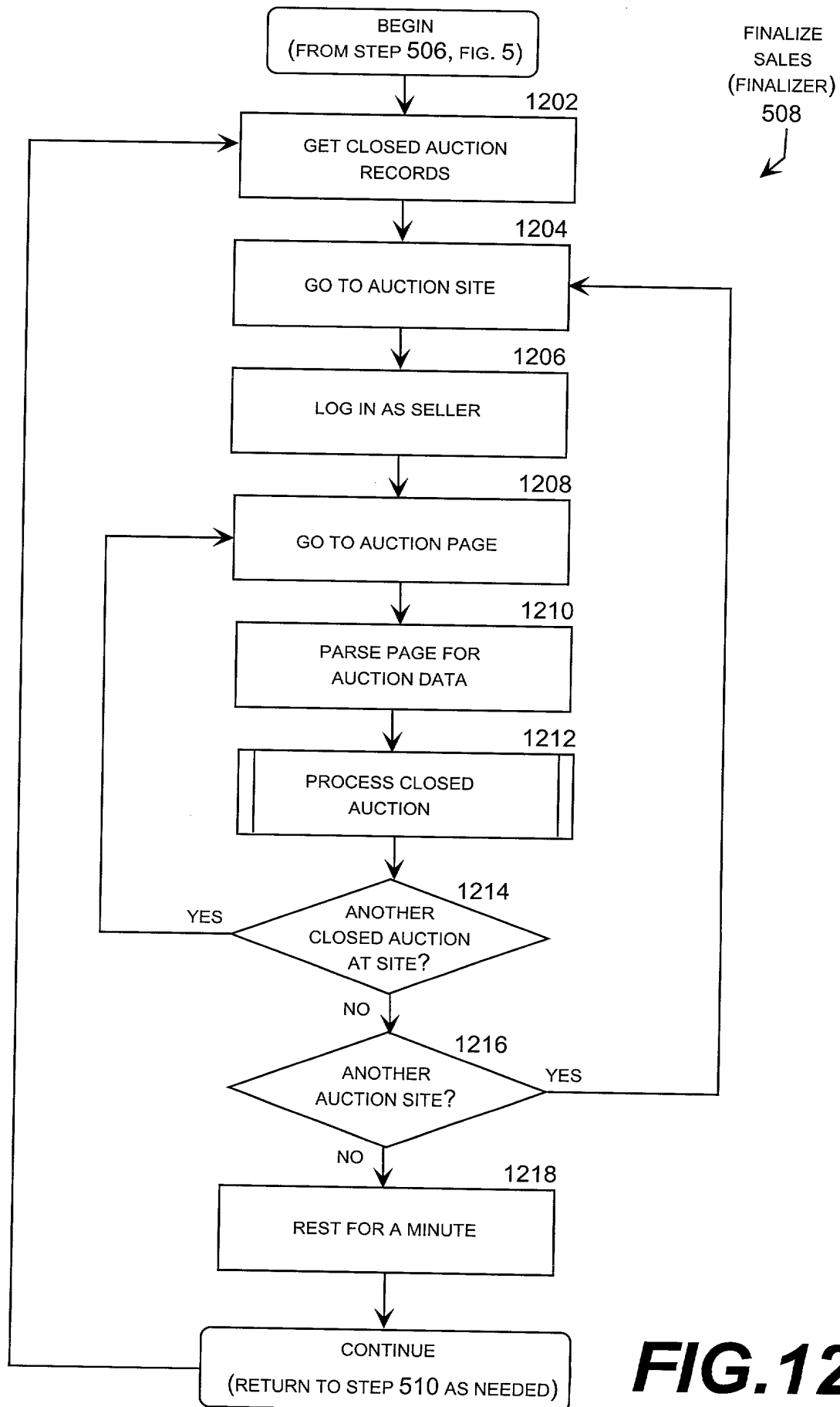


MONITOR
AUCTION SITES
(AUCTION MONITOR)

506



FIG. 11



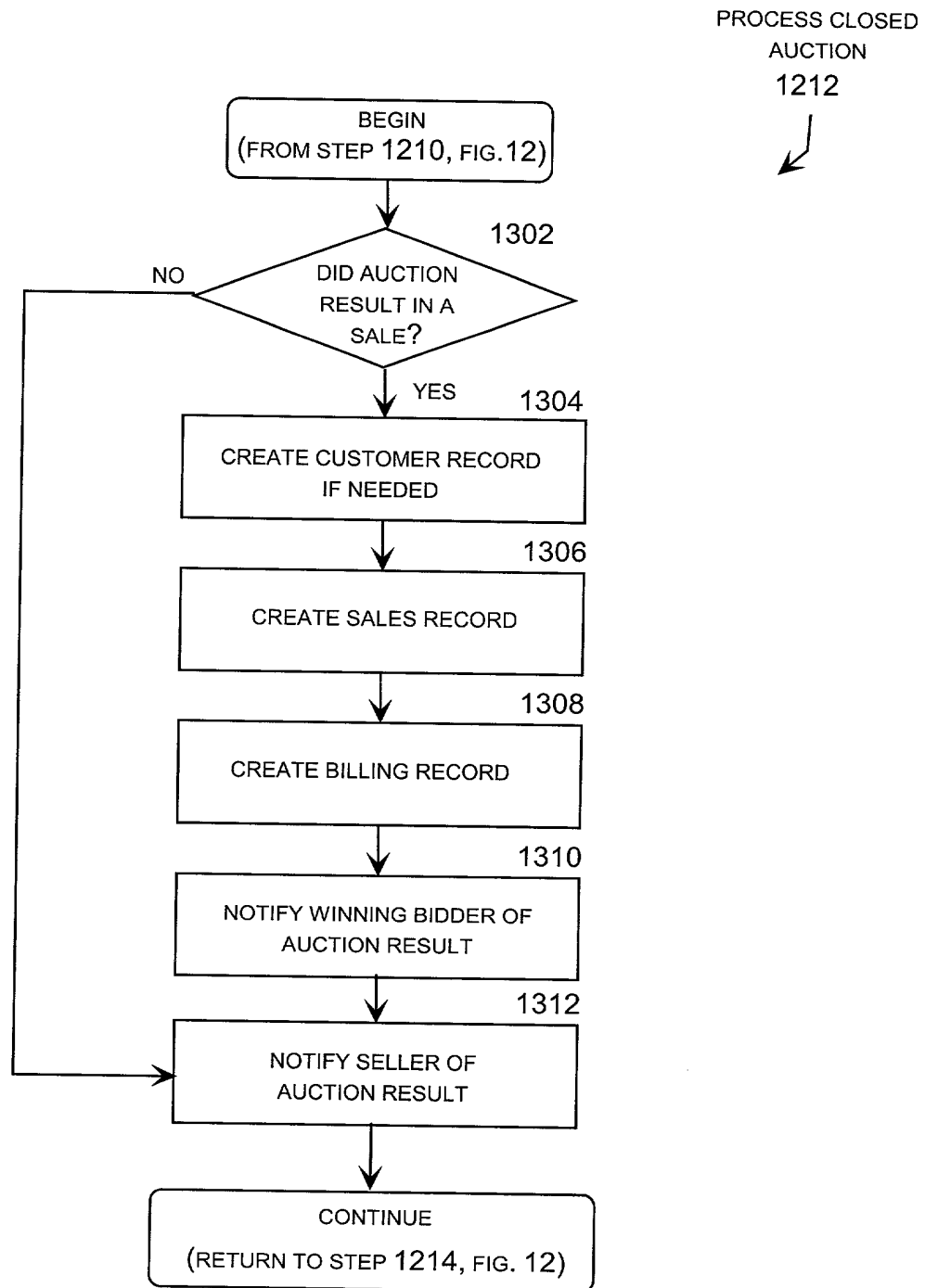


FIG. 13

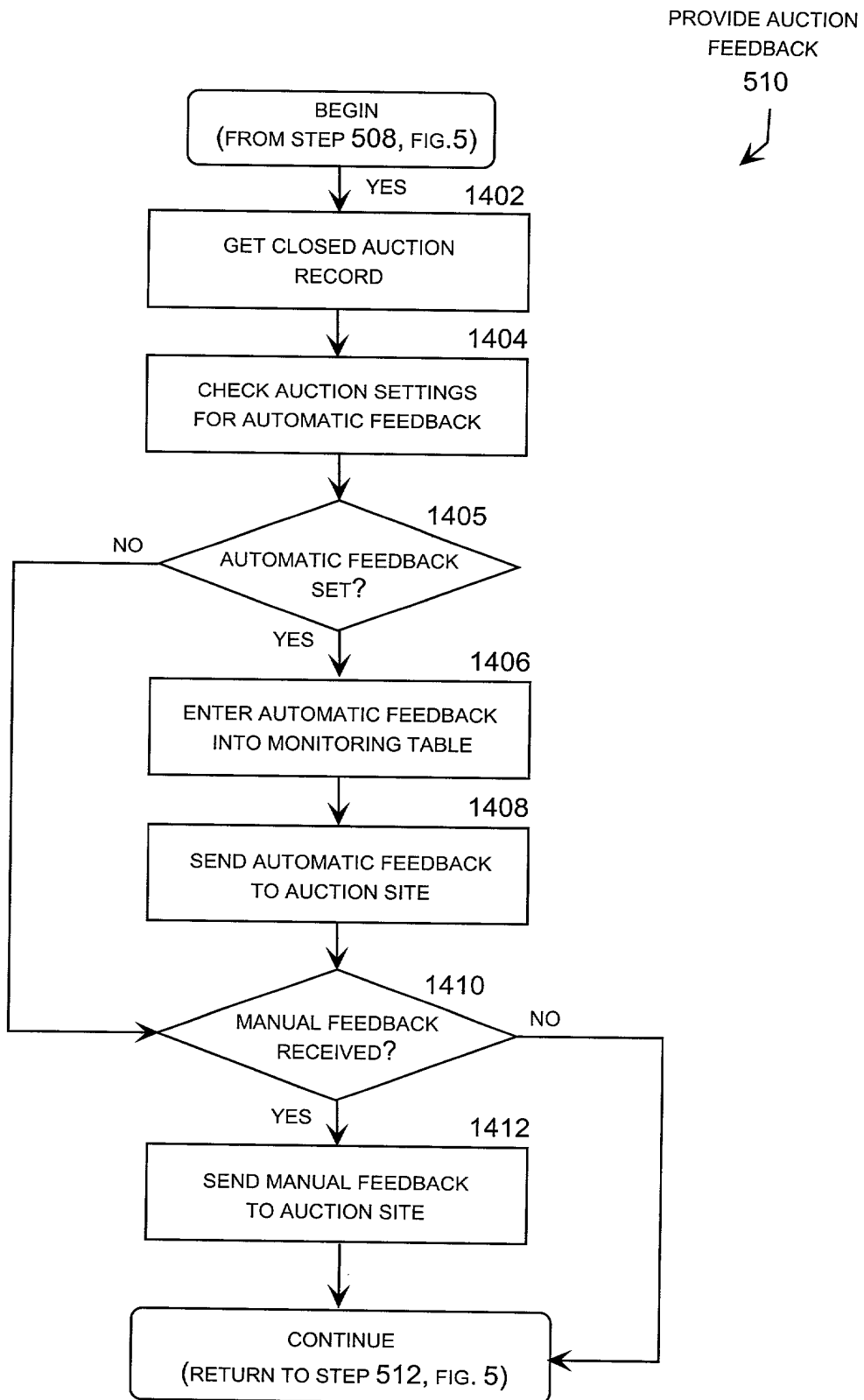


FIG. 14

UPDATE
PARSER
514

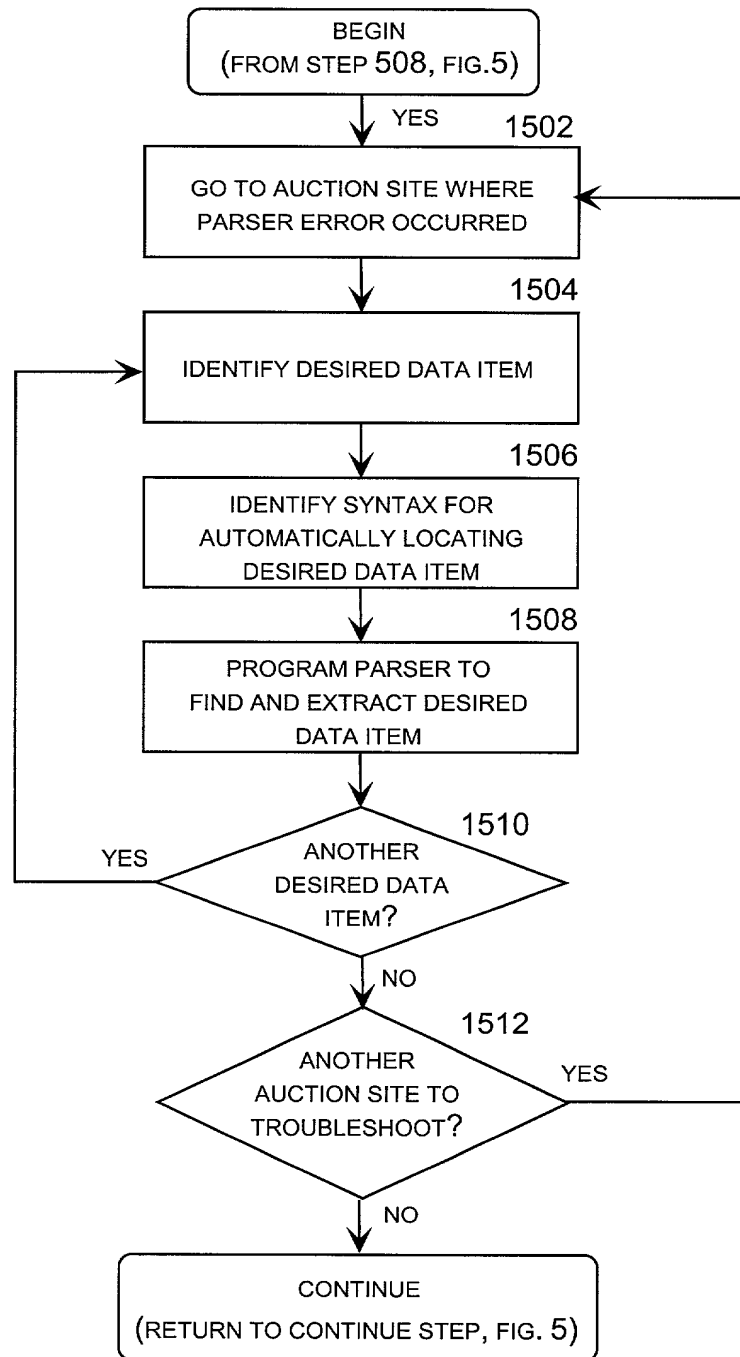


FIG. 15

1600

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sellers

buyers

news

resources

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Sellers : MonitorLost? Need help? Check out our QuickStart™ Guides**Closed Auctions** (khome-king (0), ablan)

Page 1 of 1

Commands:

Auction Sites:

Display Filter:

Archived Auctions:

Auctions Per Page:

Save Changes

Go!

All

Closed Auctions

Non-Archived Auctions

25 Per Page

✓	Item	Qty	High Bidder	Current Price	Hits	End Date/Time
	Title					8/11/00 05:41:00 PM
	407048143	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048162	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048179	1	No Bids	\$2.99	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048206	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048233	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048256	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048279	1	No Bids	\$2.99	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048310	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048335	1	No Bids	\$1.99	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048360	1	No Bids	\$1.00	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048376	1	No Bids	\$4.99	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048403	1	No Bids	\$1.99	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048431	1	No Bids	\$39.95	-	Relist this Item
	Title					8/11/00 05:41:00 PM
	407048450	1	No Bids	\$2.99	-	Relist this Item
	Title					8/11/00 05:42:00

1700

auction works power tools for power sellers	admin	sellers	buyers	news	resources	search	about us
	Start Monitor Storefronts ClickBid™ Profile Accounts						
	logout ? help						

Buyers : Monitor

Below are your current bids on the various auction sites that we support. Use the display command bar below adjust what is displayed and how. Select [**Refresh**] and hit the "Go" button to update times and show your change. Select [**Update**] and hit the "Go" button to pull fresh prices and auctions from the auction sites.

All Completed Auctions (johnnyapollo (195), John Eaton)							Page 1 of 3
Commands:		Auction Sites:	Display Filter:	Archived Auctions:	Auctions Per Page		
Save Changes		Go!	All	All Auctions (Won and Lost)	Non-Archived Auctions	25 Per Page	
✓	Item	Qty	High Bidder	Current Price	Hits	End Date/Time	
	1967 Mattels Matt Mason's Buddy -DOUG DAVIS-					7/4/00 02:46:52	
	370444397	1	vadis4	\$38.00		7/9/00 03:01:44	
	LOST IN SPACE 1964 premiere rare promo item						
	372627822	1	lucydesi@frontiernet.net	\$23.50		7/9/00 03:04:06	
	LOST IN SPACE 1964 PREMIERE rare item #2						
	372629600 ← 1702	1	johnnyapollo	\$19.99		7/9/00 03:05:53	
	LOST IN SPACE 1964 PREMIERE rare item #3						
	372630649	1	lucydesi@frontiernet.net	\$26.66		7/9/00 04:20:10	
	1973 Mattel Dealer's Catalog MINT!						
	372684104	1	ameans@msn.com	\$62.01		7/9/00 06:28:15	
	LOST IN SPACE REPLACEMENT ROTO JET GUN MOTOR						
	372790714	1	thetoyho	\$35.00		7/9/00 09:45:08	
	1969 Mattel Toy Christmas Barbie Catalog						
	370822042	1	kiddle	\$126.50		7/9/00 09:53:34	
	1979 Mattel German Hot Wheel Barbie Catalog						
	370834778	1	lost-in-space_2	\$71.00		7/9/00 11:34:02	
	1968 FAO Schwarz Christmas Toy Catalog						
	373151521	1	katiews	\$13.50		7/11/00 06:13:PM	
	Greg Bear HEADS 1st Amer.HB w/DJ SIGNED!!!						
	374423215	1	voyer@mediaone.net	\$13.50		7/12/00 10:38:AM	
	HOW TO WRITE SCIENCE FICTION-ORSON SCOTT CARD						
	374871114	1	mgr2000	\$5.25		7/12/00 10:04:PM	
	ASTRONAUT BUZZ ALDRIN SIGNED BOOK APOLLO NASA						
	375387692	1	timihealy	\$31.00		7/12/00 10:38:PM	
	Moorcock: SIGNED/MINT/RARE Tales Texas Woods						
	373083751	1	drmgate	\$20.50		7/13/00 10:49:AM	
	HOMEBOY - ORSON SCOTT CARD - 1ST EDITION						
	375685787	1	scstump	\$5.50		7/13/00 05:39:PM	
	Greg Bear*DINOSAUR SUMMER*Signed 1st Edition!						
	375959225	1	boomerbooks	\$16.49			

DECLARATION AND POWER OF ATTORNEY

Attorney's Docket No.: 4A02.1-010

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention titled: **AUCTION MANAGEMENT SYSTEM**, the specification of which is attached hereto and filed concurrently herewith.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I do not know and do not believe that the same was ever known or used by others in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to the date of this application. I further state that the invention was not in public use or on sale in the United States of America more than one year prior to the date of this application. *I understand that I have a duty of candor and good faith toward the Patent and Trademark Office*, and I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of the foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application for patent or inventor's certificate disclosing subject matter in common with the above-identified specification and having a filing date before that of the application on which priority is claimed:

<u>Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Priority Claimed Under 35 USC §119</u>
<u>Not Applicable</u>			Yes _____ No _____

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States **Provisional Application(s)** listed below:

<u>Not Applicable</u>
(Serial. No.) (Filing Date) (Serial No.) (Filing Date) (Serial No.) (Filing Date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter disclosed and claimed in the present application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
<u>Not Applicable</u>		

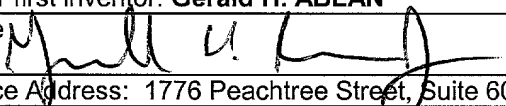
I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

POWER OF ATTORNEY: The following attorneys are hereby appointed to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Arthur A. Gardner - 33,887; Bradley K. Groff - 39,695; Matthew D. Josephic - 43,691; and Michael J. Mehrman - 40,086.

Send correspondence to: Michael J. Mehrman
GARDNER & GROFF, P.C.
Paper Mill Village, Building 23
600 Village Trace, Suite 300
Marietta, Georgia 30067

Direct telephone calls to:
Michael J. Mehrman

Phone: 770 984 2300
Facsimile 770 984 0098

Full name of sole or first inventor: Gerald H. ABLAN	Citizenship: USA
Inventor's signature 	Date: 8/22/00
Business Post Office Address: 1776 Peachtree Street, Suite 600 North, Atlant, Georgia 30309	

Additional inventors are being named on separately numbered sheets attached hereto.